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PACIFIC FISHERMAN

Power and Fury in Washington...p10

California Sardine Forecast.....p12

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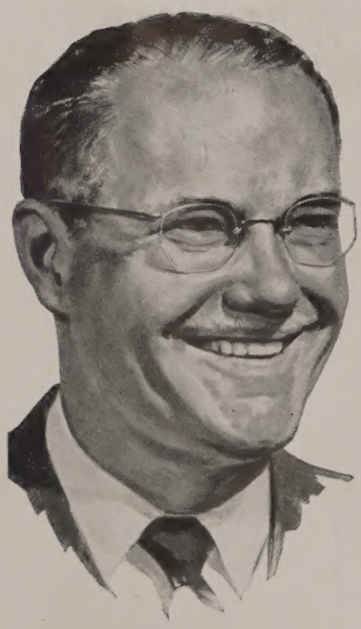
FOOD FROM THE SEA—This terra cotta sculpture by Milton Horn adorns the facade of the new Research and Development Center of the Continental Can Co. at Chicago, typifying one of the two main sources of canned food—fishing and farming.

MILLER FREEMAN PUBLICATION

Can you stop this "phantom thief" from stealing engine life?

Yes...with the help of Shell men, techniques and an oil



Engineers knew *friction* caused gasoline and diesel engine wear. But Shell scientists suspected there was a hidden villain—even more destructive.

Years of research proved the "phantom thief" was *acid action*, result of harmful acids formed during the combustion cycle.

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A telephone call can put this team to work solving your lubrication problems. Call in your Shell representative today.

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PACIFIC FISHERMAN

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Publishing Office
534 S.W. 3rd Ave., Portland 4, Oreg. ..... CApitol 3-6348

Editorial and Advertising Office
71 Columbia St., Seattle 4, Wash. ..... MAin 1626

Regional Offices
370 Lexington Ave., New York 17 ..... MUrray Hill 3-9294
1791 Howard St., Chicago 26, Ill. ..... ROgers Park 4-3420
102 Pender St., W., Vancouver, B.C. ..... MArine 7287
3501 Eagle Rock Boulevard, Los Angeles 65 ..... CLinton 5-7194
121 Second St., San Francisco 5 ..... GArfield 1-5887
115 N. Avalon, Wilmington, Calif. ..... TErminal 4-4538
3518 Dante St., New Orleans 18 ..... AMhurst 2762

Circulation Department: 121 Second St., San Francisco 5, Calif; Charles C. Baake, Circulation Manager.

Send change of address to Circulation Dept.; include old and new address, and zone number.

Subscription rates: U.S., Canada, & Latin America, one year—$3, two years—$5, three years—$7. Other countries: one year—$4. **Postmaster:** Send form 3579 to Circulation Department.

ADVERTISING: Complete plates only should be sent to Pacific Fisherman, 235 N. W. Park Ave., Portland 9, Ore. . . . Advertising copy and cuts, instructions and insertion orders should be sent to the Seattle office.

PACIFIC FISHERMAN (with which is combined West Coast Fisheries). Published monthly except January when publication is semi-monthly, by Miller Freeman Publications, at 534 S. W. Third Ave., Portland 4, Ore. Entered as second class matter at the post office at Portland, Ore., under Act of March 3, 1879. Postmaster, please send Notice 3579 to PACIFIC FISHERMAN, 121 Second St., San Francisco 5, California.

A MILLER FREEMAN PUBLICATION

Red Salmon Rebound

● Red salmon fisheries of Bristol Bay flashed into active production just before presstime, brightening a salmon prospect which had been dismal until then.

Moreover, the rapid rise in fishing to a level not matched in recent seasons came in an unexpected sector —the Naknek-Kvichak fishery, with Egegik also good. Nushagak, where a good run had been forecast, was lagging at presstime, and Ugashik was weak.

The good fishing came late, and how long it would continue was the crucial point.

Drama to Westward

● Another act of drama centered on the fisheries of Bristol Bay, where a fleet of seiners, reportedly fishing as much as 40 miles from shore off Port Heiden, created such a stir that the waves they raised rolled all the way to Washington, and back again in the form of an emergency order by Secretary of the Interior Fred A. Seaton. This forbade salmon fishing outside territorial waters off the coast of Alaska by means of nets.

Thus at a stroke was applied the limitation sought last September by the American Section of the International North Pacific Fisheries Commission.

When it was evident that establishment of such an off-shore fishery was threatened as a means of avoiding seasonal closures and other regulatory measures applicable within territorial waters, the industry in the fall of 1955 almost unanimously called for the limitation.

The emergency order was applied under the terms of the enabling act which implements the North Pacific Treaty, and which provides that the Secretary of the Interior may act to regulate fishing on the high seas when the American Section of the North Pacific Commission requests it as necessary to effective conservation of the salmon in international waters.

Possibility that the competitive pressures in Western Alaska would carry boats beyond territorial waters was recognized in advance of the season, but preventive regulation was withheld.

Action in mid-season brought instant counter-action. The official statement said the limitation was applied because of "a serious threat of early establishment of the high seas fishery which would jeopardize the Department's salmon conservation policy in the Bristol Bay area".

● Prince William Sound, re-opened to fishing after two years of complete closure, was a focal point of earnest attention, as it offered a clear-cut test of the effectiveness of the radical remedies applied under the Farley Plan.

Early fishing—too early to be truly significant—was favorable, with the fish apparently in the westerly waters of the sound. Pinks were smallish, but Chums rather abundant and of fair size.

● Bonner Bill to reorganize the Fish and Wildlife Service into two distinct bureaus of the Department of the Interior, and under the overall supervision of an assistant secretary, passed the lower house of Congress July 7 and at presstime was before the Senate.

Another great CANCO ad to help boost your sales!

In the August 13th issue of LIFE and in the SATURDAY EVENING POST for August 25th you'll see this striking ad full size and in full color—the latest in a continuing series by Canco.

The millions of consumers who read this message will be reminded of the many delicious fish products available in cans, and how convenient and reliable they are. Pictured, too, is Food Chemist L. G. Germain, one of many Canco specialists who help the fishing industry produce a better product. Thus the ad builds confidence in the quality of canned sea food —and *that* builds your sales!

It's one more example of how Canco works actively to increase the prestige of all canned foods.

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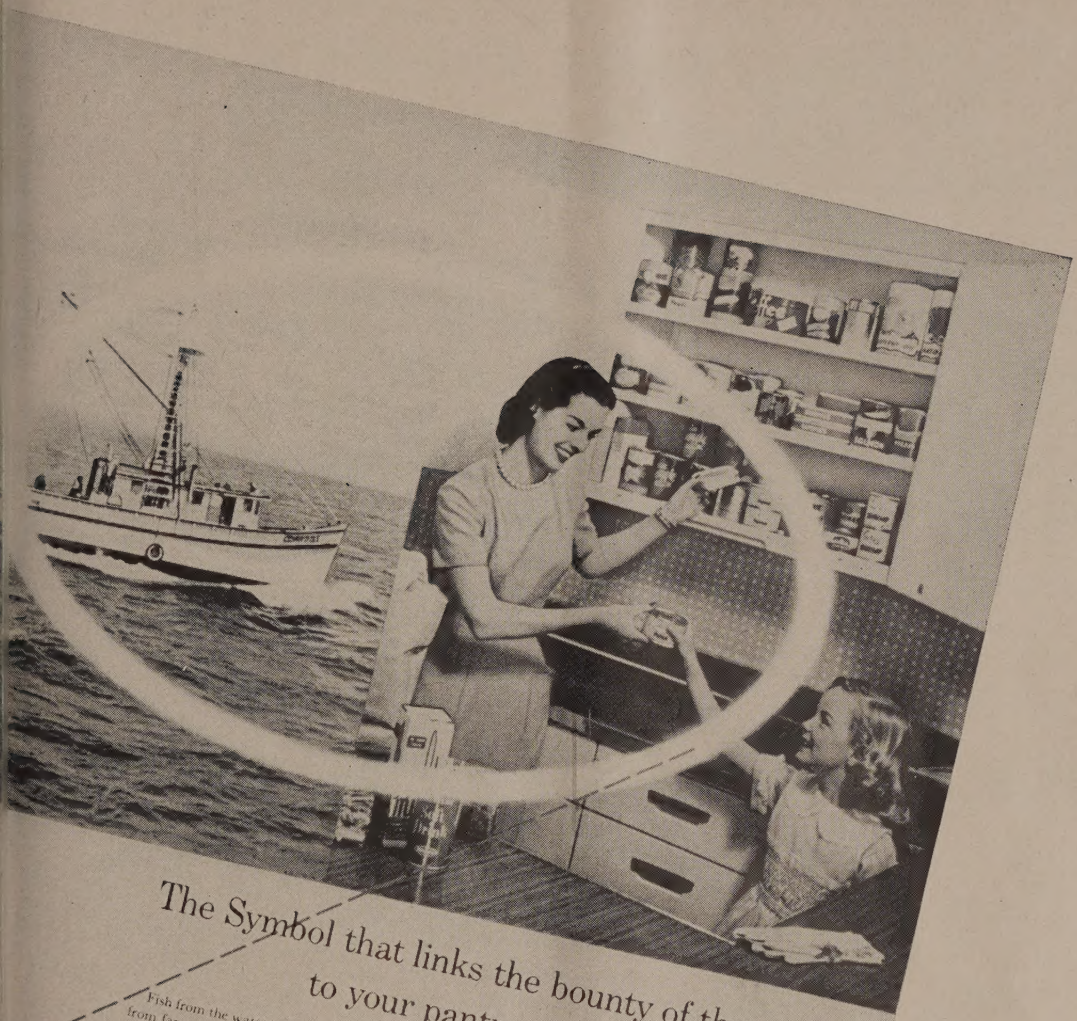

The Symbol that links the bounty of the sea to your pantry shelves

Fish from the waters of Maine and California . . . from far-away Alaska and the Gulf of Mexico . . . come to your pantry today with extra flavor and nutrition. And it's because of the can and a symbol you probably seldom notice.

The symbol is a trade-mark—a small oval on the ends of cans made by American Can Company.

Back of it is Canco's belief that the can is more than a container, it's a way of helping you live better . . . more conveniently . . . for less money.

Back of it, too, is Canco's motto "Can do," and the *spirit of cooperation* that makes this motto work.

BEHIND THIS SYMBOL ARE THE SERVICES OF CANCO'S "CAN DO" MEN. HERE'S HOW THEY HELP BRING YOU TASTIER CANNED FISH

AS ANY FISHERMAN KNOWS, the quicker fish is prepared after catching, the better the flavor. To help the industry preserve flavor and speed catch-to-can time, Canco developed compact machinery to fill cans and close under vacuum—*right aboard ship!*

FOOD CHEMIST L. G. GERMAIN is one of the many specialists who help the canning industry produce better products. Faced with tough problems and great opportunities, Canco's researchers and service people have always answered "Can do"!

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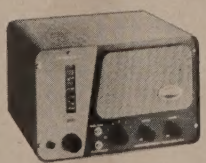

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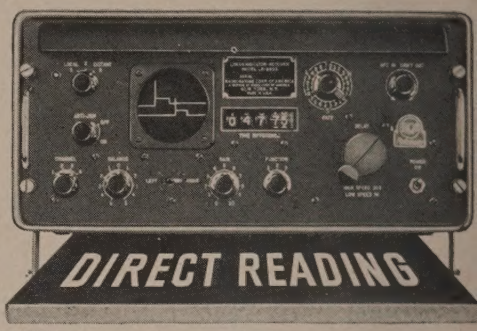

DIRECT READING

Saves You Time

Whether you are spotting time tested fishing banks or determinin the fastest course for your shi Radiomarine Loran (Model LF 8803) cuts your running time t the barest minimum. Fast, accurat fixes speed your ship by determi ing your location . . . maintainin your course. And it operates in a weather . . . foul or fair.

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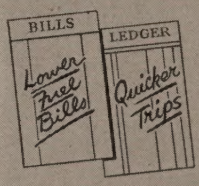

With Radiomarine Loran you c take advantage of favorable oce currents that conserve your fue Quick positioning in any weath means cutting trip time . . . elim nating costly delays. And for fis ing men, Radiomarine Loran hel you find the most profitable fishi banks quicker, indicates when y arrive, and helps keep you direct on your fishing position at all time

Saves You Effort

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Direct reading . . . calculates aut matically. Simplifies pin-pointi your position on Loran charts. R cessed scope and dial make day night reading quick and eas Whether you are on a fishing boa tanker, cargo ship or luxury line steer your course to greater profi with Radiomarine Loran.

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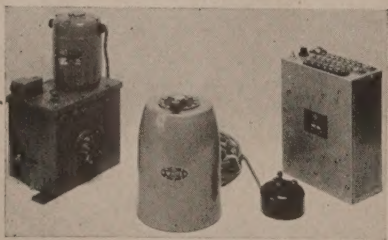

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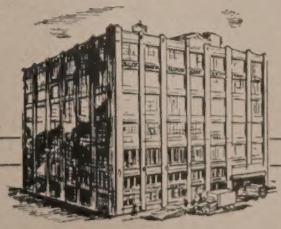

Pacific Marine Supply Co.

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What's New? And What Does it Mean?

Delay in delivery of licenses by the Soviet Union for ing fleets to operate inside the Bulganin Line during 1956 season proved highly disturbing to the Japanese. ually it is believed that the licenses all were received the time they were needed. Thus it appears that the .S.R. policy of issuing them in batches was dictated as splay of capricious authority.

ardine availability comparable with that of last year forecast for the 1956-7 season in *Southern* California he California Marine Research Committee at its pre- on meeting at the end of June.

here was no forecast of sardine availability along the tral California coast, where there have been no land- for the past two seasons.

he *catch* last season was 74,000 tons, but the fishermen are the potential was greater, as the catch was curtailed imits imposed on catches by market weakness.

urprise fishing for herring brought a glow to that busi- in Southeast Alaska such as it has not known in years. fishing was fine and the individuals exceptionally large the races usually encountered there. Ages as great as ears are reported among the samples.

hence did fish of this size and age come? Why has this age class been in evidence in previous years?

elay of the special no-quota halibut seasons scheduled August 10 and 17 is necessitated this season as result e fleet's voluntary postponement of the start of fishing lay and its spread-the-fishing policy of a 7-day stay- rt between trips.

he halibut commission regulations require a minimum d between the regular season and the subsequent spe- openings. Protection of the period of fishing this sum- is due to voluntary slow-down fishing on the part of ishermen in order to support the market, and not to actual scarcity of halibut on the grounds.

treme smallness characterized the individual Pink sal- making up the initial catches in the northern districts outheast Alaska. It was plain murder for the fellow was buying fish by the piece at a higher price than ear; but the seiners were hoping that this would be f those cases when a good run in numbers is composed ividuals of below normal size.

● Research halibut fishing in the Bering Sea, conducted by the International Pacific Halibut Commission for tagging purposes, encountered phenomenally heavy concentrations of fish along The Edge, where the shallow eastern banks drop off to oceanic depths.

These are waters which have been fished occasionally for many years, but usually with most disappointing results. The exceptional catches made by the researching *Polaris* are almost certain to attract vessels of the long-range fleet during the extra seasons this summer.

● Shore-based ocean salmon fishing operations out of Hokkaido, the northern island of Japan, were fortunate this season in finding the northward-migrating fish within 50 miles of shore. Sometimes they are 200 to 300 miles out.

● A number of Japanese vessels engaged in fishing for salmon on the high seas by means of longline are reported to have delivered excellent early catches to Hokkaido ports.

Their success would indicate that further employment of this method of salmon fishing on the high seas may be expected.

● Successful fishing and tagging of salmon on the high seas along the Aleutian Islands chain was reported by the Fisheries Research Institute tagging teams working there under contract in connection with the studies of the International North Pacific Fisheries Commission.

Early fishing was poor, and operations rendered extremely difficult by bad weather; but later catches showed marked upturn, and the expedition's methods of catching and tagging promised good survival rate.

● Japanese scientists and technologists collaborate to develop an electro-optical device which they say is almost perfectly accurate in detecting in raw tuna those individuals which in pre-cooking will develop "green fish" coloration that makes them unacceptable for canning and sale in the American market.

This promises to eliminate a source of loss and irritation from the tuna industry.

● Seventh steel tuna clipper of the current series building by the National Steel & Shipbuilding Co. is launched at San Diego, the seventh point of proof that there is need for modern craft in today's tuna fishing.

The Power and the Fury

And What They Brought About In Washingto

• Power and fury of the professional wildlife lobby in Congress and the Executive Branch of the national government was proven in June and July when the organized wildlife crowd went to work on the proposals to reorganize the U. S. Fish and Wildlife Service.

Violence of the attack speedily made up for the fact that it was late in getting under way. By presstime the wildlifers had taken-over one of the bills on this subject, had re-shaped it to serve their ends, and had done a fair job of selling it to all and sundry.

The House passed the Bonner Bill July 7 and sent it to the Senate, which has already passed the very different Magnuson Bill. Whether the Senate Commerce Committee, with Magnuson as chairman, will approve the Bonner Bill as a substitute, or will insist upon trying to harmonize the Bonner and Magnuson measures in conference was entirely obscure at presstime.

Certainly, though, the Bonner Bill had been brought along and remodeled by amendment until it served nicely the twin ends of the wildlifers:

(1) to knock the Magnuson Measure out of the running;

(2) to defeat the Administration's proposal to split the Fish and Wildlife Service vertically into a Bureau of Fisheries, with *all* fins and scales; and a Wildlife Service with the feathers and fur, except for that worn by seals and their cousins.

• *STIRRED UP*—The wildlife crowd flashed into action late. They were caught napping by the Magnuson Measure, with its almost-autonomous Fisheries Commission. Apparently figuring the bill didn't have a chance, they didn't fight it; but after it was amended to restrict the commission to policy and patronage it slipped through the Senate on a no-record voice vote.

This brought instant reaction and the professional conservationists went to work in a big way. Almost immediately they had to fight on another front as well. The White House announced decision to split the Fish and Wildlife Service, as outlined above, and fixing a July 1 deadline. This was serious, from the wildlife lobby's point of view; and the outcry raised was incredible.

Just *who* actually was responsible for the Administration's service-splitting proposal hasn't become widely known—one of those obscure parentage cases, you might say.

However, there were a couple of sharp ideas in the legislative phase of the Administration plan: (1) to make the Saltonstall Act permanent, with the $3,000,000 ceiling on the fund removed; (2) to establish a $10,000,000 loan fund for commercial fishing vessel maintenance and equipment.

The Service-splitting feature drew fire like a sitting duck at sunrise on opening day; and the Saltonstall-loan fund proposal was equally effective in attracting imitators.

• *HERE'S HOUSE*—Chairman Bonner of the House Committee on Merchant Marine and Fisheries, backed by Washington Congressman Thor Tollefson, saw the possibilities in the situation. So, quick as a tuna's strike, Bonner introduced a bill which would: (1) divide the Service, with an Undersecretary of the Interior over both divisions; (2) remove the limitations from the Saltonstall Bill; (3) establish the $10,000,000 loan fund.

This Bonner Bill clicked quickly. The wildlife lobby saw it as a base from which to work. The fisheries people spotted the sub-cabinet level as something they had always wanted.

• However, wildlife wanted changes; and the Administration insisted that it could not accept an *under*secretary. An *assistant* secretary it might go for; but not the higher grade.

Finally, June 28, the built-over Bonner Bill emerged from committee, bright with the blessing of the wildlife lobby. As altered, the bill calls for an Assistant Secretary of the Interior for Fisheries and Wildlife.

Under him would be a single administrator with the title of Commissioner, also in charge of both agencies, each of which in turn would be managed by a director.

All marine mammals, including lions and seals, but excepting wh would be under wildlife. Sportfish would be under wildlife supervisi

With these principal changes Bonner Bill received the imme and enthusiastic approval of the for 12 national wildlife conserv and sportsmen's organizations c ing to speak for "40 million sp men." They not only backed it, *demanded* its passage.

• *ADMINISTRATION RETRE* In the face of such a situation, was the Administration to do wi plan which had drawn such bitte position.

As a great general, President E hower knows how to retreat, an July 3 Fred A. Seaton, secreta the interior, announced what the muniques used to call a "planned drawal to shorten line."

The plan would be "deferred said in these words:

"In view of the fact that the gress is now considering legisl that would, among other things, vide for the reorganization of the and Wildlife Service to include reau for Wildlife and Sport Fi and a Bureau of Commercial eries, it would seem best at this for the Department to delay effe ing its own reorganization plan be the originally contemplated July get date.

"This is a complex problem a is the President's desire that th partment of the Interior and oth terested Federal agencies cooper the utmost with the Congress in ing out the best possible soluti the problem."

• *FISHERIES' REACTIO* Whether the Bonner Bill is ei now or not, something of the sc pears to be impending before it

Where stands the fishing in

respect to the matter? What does bill do along the lines sought by forces which precipitated the whole organization undertaking? Is it adly acceptable?

Certain it is that all elements of the nmercial fisheries are highly desir- of an official of assistant secretary k at the head of the fisheries func- ns of the government. *To accom- h this they would concede much.* However, there is an administrative akness in the bill which the busi- smen in the fishing industry can dly stomach, however much it may eal to the politicians. This is the angement by which there would both an Assistant Secretary and a mmissioner for Fisheries and Wild- ; and under them a director for h of these two divisions.

To a businessman this looks like a n case of an organization top- vy at the top.

Cutting sport fish from other fish because they are sought for sport ns stupid and undesirable to the ustry. On the other hand, the in- try would like to see sea mammals t under the Fisheries Service.

These two positions seem somewhat gical; but seals and sealions are sidered among the most damaging predators on the fisheries resource, and to place them under wildlife is considered tantamount to granting them perpetual protection.

The industry may have to loss one of these points, possibly both.

The Saltonstall extension and the loan fund are wanted eagerly by the commercial fisheries, although some elements believed the loan funds may prove of scant benefit and perhaps of some ill as a weakening of the industry's strong no-subsidy position.

Important
Notice to Subscribers

Effective with the September issue, Pacific Fisherman will be published in the first week of the month of issue rather than in the last week of the preceding month. Your copy will arrive about two weeks later than in the past. The delayed mailing date will permit acceptance of later news. Articles will continue to be current and analytical, written and edited right up to deadline.

S. E. Alaska Herring Fishing Is Excellent

Herring quota for Southeast Alaska was in plain sight before the end of June and the three plants active there were beginning to talk extension to permit them to take advantage of the best fishing they had found in years.

The fish were struck first in upper Chatham Strait, but by the end of the first week in July the fleet was finding the best fishing in the Sitka area.

There are three plants active in the area: *Port Armstrong*, Buchan & Heinen Packing Co.; *Washington Bay*, Storfold & Grondahl Packing Co.; *Big Port Walter*, Edible Herring Products.

This latter is a joint operation of Oceanic Fisheries Co. and the Wilbur-Ellis Co. in the former Arentsen & Co. leased plant.

In Central Alaska three herring plants are active, all being operations of the Oceanic Fisheries Co. These are at *Port Vita*, on Raspberry Strait in the Kodiak district, and at *Port Oceanic* and *Crab Bay* on Prince William Sound.

Sidetracked Safeguards

While the Administration is proposing indefinite exten- n of the Saltonstall Act for fisheries research and de- opment it might well call for an amendment giving a ree of dignity and responsibility to the American Fish- s Advisory Committee created by the act.

t its meeting at Long Beach, Calif., recently the com- ee was told bluntly by Wesley A. D'Ewart, Assistant etary of the Interior, that it would not be permitted to uss in detail the individual projects for which Salton- support had been requested.

le made it plain that, if such discussion did occur, the mittee would not continue to be informed as to the posals under consideration by the Fish and Wildlife ice and the Department of the Interior.

he words are amazingly reminiscent of Harold Ickes. hey are given in the official summary minutes of the ting they were:

Neither detailed discussion of individual projects nor final selection of projects is a proper function of this mittee. Only full-time Federal employes can make decision and then only after divesting themselves of conflicting fishery interests. Should a member of this mittee assume these functions he is in danger of violat- he statutes.

The detailed discussion of individual projects which was permitted to develop places individual Committee members in the position of recommending the expenditure of funds for research or services in which they have a direct interest. This cannot be permitted to continue.

"Discussions at this meeting and all future meetings of this Committee must be confined to broad subjects of policy rather than to individual project proposals."

It *does* sound a lot like Harold Ickes, *doesn't* it?

Happily, *Pacific Fisherman* is not a member of the committee, and will have no hesitancy in commenting on the individual projects, regarding which the advisory committee is forbidden to advise.

Nor shall we hesitate to say that the Saltonstall Act not only should be extended indefinitely but also should be amended to guarantee that the American Fisheries Advisory Committee which it creates shall have the authority to advise with respect to the intelligent expenditure of the funds provided by the act.

The committee was created to assure that the Saltonstall moneys be used with the advice and counsel of men of experience in the fishing industry, its needs, and how best to meet them. If the act does not permit the committee so to serve under the interpretations of the Departments of Justice and Interior, then it should be amended to make sidetracking of these safeguards impossible.

Marine Research of California's cooperative program is directed and coordinated by this committee, pictured here at its 1956 pre-sardine meeting at La Jolla. Reading from the left: Arthur H. Mendonca, John V. Morris, Gilbert C. Van Camp, Chairman J. G. Burnette, W. E. St Ray Cannon, John Hawk, Donald T. Saxby, and Joseph Mardesich.

1956-7 Sardine Prediction Sees Little Change from Last Season

● Sardine availability in 1956-7 closely comparable with that of previous times in Southern California.

No prediction of any catch for the Central California area.

● These were the modest forecasts ventured at the 1956 meeting of the Marine Research Committee in La Jolla, Calif., just before presstime. The forecast seemed to refer specifically to the potential in Southern California waters and did not predict what might happen in the Northern California area, where there have been no sardines for some years.

Studies by the California cooperative oceanic fisheries investigations on the sardine fishery indicate that spawning in the spring of this year has been comparable to that of last. The 1955-1956 season produced about 74,000 tons. Reports at the La Jolla meeting were that the coming season may produce as much. Last season boats were placed on limits by canneries. Many fishermen believe that if no limits had been placed, the tonnage production for the past season would have been much greater than it was.

John Radovich of the California Fish and Game Department stated that the department's plane spotting indicates the same pattern this past spring for offshore spawning as in the spring of 1955. He stated, however, that it was possible that the population of sardines for commercial fishing might be less than last year. The 1956 sardine is of the 1952 class, he stated, and is larger than those taken in 1955.

Scripps' staff member, E. H. Eahlstrom, reporting on studies of anchovies and Jack and Pacific mackerel spawning, indicated that recent vessel research on pelagic fishes showed large spawning areas in the Gulf of California. His report noted that anchovy spawning is close to shore, while sardine and mackerel spawn are found offshore.

Two large spawning areas for sardines were south of Point Concepcion (1) Central Baja California and (23 Southern California and Northern Baja California.

At the La Jolla meeting, emphasis was placed on the importance of a resumption of a tagging program on sardines, which has been suspended since about 1942 in Southern California waters.

● Gilbert Van Camp, a member of the research committee, asked this question: "Is there any competition for survival between the anchovy and sardine?" The answer from the marine scientists was that in the early stages of the development of the two species, the young sardine and anchovy compete for the same food.

Skipper Radovich of the *Yellowfin* indicated that the work of the California Fish and Game staff shows the sardine schools, during spawning period, in the spring, concentrate a distance offshore, then move inshore and, at the beginning of the commercial season, begin to disperse and move south.

At the meeting great interest was shown in the experiments by California's Fish and Game, Terminal Island division, on the use of "electric fishing" for schooling sardines. This type of experimentation has been carried on in the open sea with the *Yellowfin*, using battery-power and a switching device to pulsate the current, pro ing a 15' effective range with volts.

Because the retirement of the search boat *Yellowfin*, operated some years by the California and Game, has become a nece Dr. Robert C. Miller, director o California Academy of Sciences, sented a resolution which called an "interim" replacement for the *lowfin* and for a long-range, pe nent replacement for this vessel w has served the California fishery search for a number of years.

Ray Cannon, who represents sports fishermen on the comm emphasized the need for a stud natural mortality statistics of c fish as opposed to mortality from ing, commercial and sport; he brought before the group the nee compilation of figures, to be inc rated in the committee's annual ress report, of statistics on pred on such fish as sardine, mackerel anchovies.

"Is it possible to have a regul port, during commercial fishing sons, on water temperature, sh currents, etc., similar to those i by Japanese publications, on a d day basis, or at least on a timely sonal basis, for use by comm fishermen and canners?"

This was a question asked by Van Camp. Several commen committee members and scientis dicated that the currents in the of jurisdiction by the Committe research groups were not as nounced as those in the areas by Japanese vessels, and hence subject to regular reports as i published reports to its fishern

tabilized Operations Keep Tuna
On Even Keel Despite Big Catch

roduction of tuna by the Southern ifornia bait boat and purse seine t was down somewhat for the last k in June, in comparison with 1955 duction for a similar period, but fleet out of San Pedro and San go from January 1 through June or 1956 had delivered 76,505 tons ompared to 51,908 tons for 1955, about 47%.

he two large canneries on Termi- Island were working as July be- with their fleets on a "curtailed luction" basis. Arrangements be- en canneries, boat owners and the ns were flexible and as of July eliminated the problem of last 's curtailed fish buying by prompt ading combined with regulated sailing orders. Most of the purse seiners in mid-year were working on a 30-day trip basis; and if the flexible schedule by canners continued, the year-round tuna fishing vessels might complete three to four trips for the year. It was the opinion of certain representatives of the industry that the current system of regulating fish production was superior to that of last year because there was less chance of loss of fish due to slow unloadings and resultant spoilage and rejects.

Thus far, 1956 has been a particularly good year for Yellowfin: 48,267 tons from January 1 through June 23, as compared to 25,161 for a similar period in 1955. For this same time in 1955, Skipjack was less by about 1,000 tons than in 1956.

Bluefin tonnage, taken by purse seiners, was greater than in 1955: 1,286 as compared to 774 tons.

For the most part, however, purse seine fishing for tuna was slow in June, with a revival by the end of the month. There were more than 1,000 tons delivered as of June 23 than in 1955. Increased production from the bait fleet was also characteristic of the first half of 1956: 59,998 as compared to 36,451 tons, this including a small amount of bonito and yellowtail.

San Pedro port continued its lead over San Diego in tonnage of tuna received and canned, for the first half of 1956.

---

olumbia River Packers
uy Hawaiian Tuna Firm

utstanding consolidation of recent s in the Pacific fisheries this sum- saw Columbia River Packers As- ıtion, Inc., acquire all the assets awaiian Tuna Packers, Ltd.

hus the largest American tuna er outside of California acquires only active tuna operation in the aiian Islands.

ıe agreement approved by the di- rs calls for the C.R.P.A. to ac- H.T.P. assets in an exchange of . Approval of stockholders is re- d, but this is assured, as Castle oke, Hawaiian trading firm, is the owner of Hawaiian Tuna Pack- Ltd., and Transamerica Corpora- holds the very large majority of mbia River Packers Association .

F. Sandoz, president of Colum- River Packers Association, Inc., Malcolm MacNaughton, president awaiian Tuna Packers, Ltd., an- ced that immediately after the er is consummated, it is planned Mr. MacNaughton will serve as ector on the board of Columbia Packers Association, and that ert D. Hart will be elected vice ident and serve as general man- n charge of Hawaiian operations.

Hawaiian Tuna Packers own and operate a modern tuna cannery in Honolulu, T. H. They produce a quality pack of light meat tuna which is caught by local fishermen in the waters adjacent to the Hawaiian Islands. Their pack is extensively marketed in the Hawaiian Islands under the *Coral* Brand, and in the major markets of the Gulf States and the Northwest under the *Royal Hawaiian* Brand.

Columbia River Packers Association, Inc., one of America's pioneer seafood packers, produces an extensive line of canned and frozen seafoods which are marketed nationally under the well-known *Bumble Bee* Brand. The company operates a cold storage plant and salmon and tuna canneries at Astoria, Ore., as well as salmon canneries on Puget Sound and in Southeastern and Bristol Bay, Alaska.

The merger will in no way affect the continuance of the present packing operations of the two companies.

In 1955 the combined production of frozen and canned seafoods approximated 1,300,000 cases.

The consolidated operation will mean a stronger sales program for Columbia River Packers Association, Inc., as it is planned to continue with the merchandising of the principal brands of the respective companies.

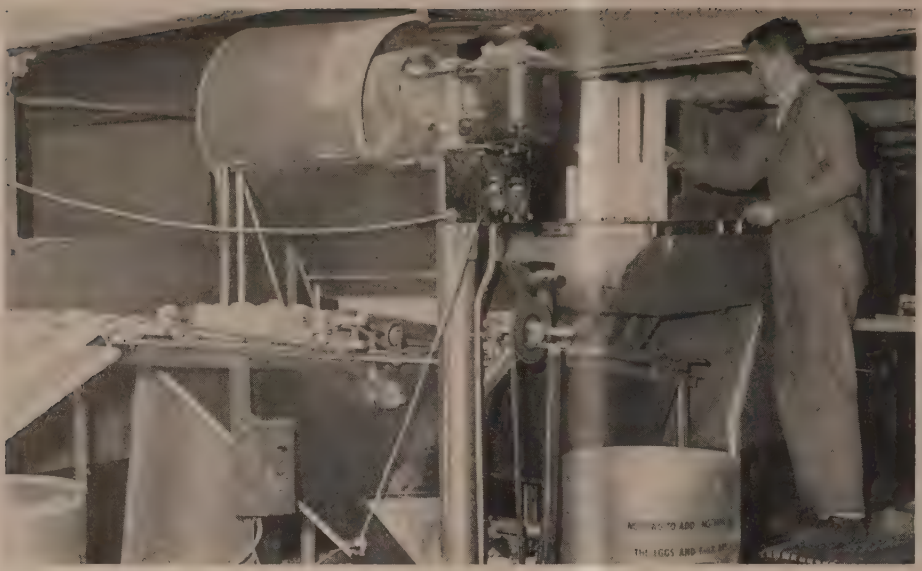
California Tuna Operations — June, 1956

(Approximate figures for tonnage and total case pack)

San Pedro		San Diego		Combined
Species	Tons	Species	Tons	Tons
Yellowfin	7,526	Yellowfin	1,486	9,012
Skipjack	4,107	Skipjack	703	4,810
Bluefin	1,364	Albacore	6	790
Albacore	784			
Yellowtail	41			
Total	**13,822**	**Total**	**2,195**	**16,017**
Pack in cases	**651,284**	**Pack in cases**	**114,815**	**766,099**

Frozen Tuna Imports—Southern California, June, 1956

Japan	Tons	South America	Tons
Yellowfin	1,589	Yellowfin	76
Albacore	761	Skipjack	233



Stick-cutting and dus the Chef plant at S Walter Soroe, one partners, slips strip from a frozen slab i hydraulic cutting m which cuts the sticks, get their first batt dusting in this Chef-de machine, before pas the Harrison brea

How Chef's Nimble Operation Concentrates Stick Business

• Swing toward custom packing of fish sticks and other breaded and fried frozen sea food specialties spotlights the Chef Canning Co. in the Pacific Northwest, where this strictly custom operator has come to process a very large percentage of the regional pack of such products.

Plant of the Chef Canning Co.—which no longer does any material amount of canning—is located in the Georgetown section of Seattle in the gigantic structure which was the pre-prohibition Rainier Brewery; where the company leases quarters from Jack McGoldrick's Rainier Ice & Cold Storage, Inc.

Incidentally, Rainier Ice does Chef's freezing; but that is another story.

• Chef's commanding characteristic is its versatility—and this applies to its business activities as well as its ing operations.

In the Chef set-up the two pa divide their fields of primary resp bility. Lief Sathre handles the and business end. Walter Soro rects the plant and production both *work*, and at any job where are needed.

In the custom fish packing bu you *have* to be adaptable. In the ing you're working for one cust and in the afternoon for his bit competitor. Either would like to what you're doing for the other shouldn't; moreover, there are in ual specifications to meet, labels ply without error; and custom keep satisfied while trying to others.

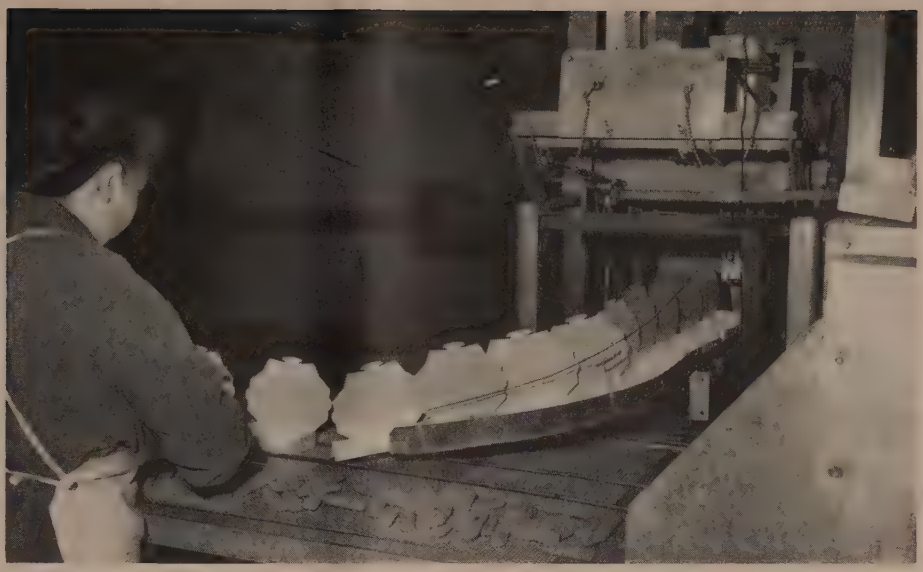
In the field of plant operatio problem is equally complex—p more so.

Today's run calls for fish sti be cut, breaded and fried. Tomo schedule is for fish sticks agai this time cut from *slabs*, not and breaded, but *not* fried.

Day after tomorrow it's b oysters in the morning, *not frie* in the afternoon it's *oyster* breaded *and* fried.

• How do you handle an assig

Partners in Chef Canning Co. are Lief Sathre, left, and Walter Soroe. Between them, they have built the custom breading and frying business by personal hard work.



s meet cartons at this
t in the Chef production
The boxes are formed
he machine in the left
ground and delivered to
ame conveyor on which
fried sticks emerge from
e cooler at the right.

that? There probably are different
s. This article is devoted to a brief
rt on how *Chef* does it.

irst, as the announcers say, a word
ut our subject.

hef Canning Co. is owned by Leif
athre and Walter B. Soroe. Com-
from Norway with a fish trade
kground, they went into business
small plant in the country south
eattle, preparing and packing Scan-
vian specialties, such as fiskeboller
ied in broth. That's where the
f *Canning* Co. name came from.
products were sold under Ivar
dt's *Pacific Pearl* label, as well as
Saroe brand.

hen some of the Seattle fish deal-
catching the rising ground swell
he fish stick business, suggested
Chef undertake custom breading,
ig and packing of the new item.
o time at all this was the bulk of
business and Sathre and Soroe
moving their plant into Seattle,
e they had more room, better
ities, more convenient transpor-
n, and proximity to a modern
er with large storage capacity.

s this article was written a glance
hef's sample display cabinet dis-
d dummy packages for the San
Fishing & Packing Co.'s *San Juan*
Ship Ahoy brands in many prod-
classifications; Eardley Fisheries'
ds; *PictSweet* and *Stokeley* fish
s to round-out those great fruit
vegetable lines; Northwest Fish-
Ocean Deep brand; *Ocean Beau-*
r Washington Fish & Oyster Co.,
le Seafoods, Inc., Meredith Fish
f Sacramento and Portland Fish
Portland; *Captain's Choice* brand
afeway Stores and its Brighton
Co.; *Smiling Oyster* brand for
lympia Oyster Co. oyster sticks.
e are others also.

● Secret of Chef's method for meeting the constantly varying demands of a custom packing business lies in the mobile character of the equipment. All units with the exception of the cooker and the cooler, are on casters and can be shifted in and out of the active line, which can be lengthened or shortened as the item in process requires. Fryer and cooler can be used or by-passed, in case a product is being breaded, but not fried.

Moreover, carton-forming and closing and wrapping machines may be cut into the line, or eliminated entirely if institutional sizes are being produced.

Now to walk through the several steps of the Chef operations:

● *CUTTING STICKS* — Raw material is delivered to the plant in blocks or slabs; and stored pending use in a small cold room at 0° F. In the case of blocks, these are sawed into sticks in the conventional manner on a pair of Butcher Boy band saws.

Slabs are something else again. These are a new form of fish sticks material produced by the Eardley Fisheries Co., Seattle. They are formed of fillets re-cut into smaller portions and frozen under pressure in slabs 22 by 30" in plan and ¾" thick. The slabs weigh 15 lbs. each and are packed four to a large, flat solid-fiber box.

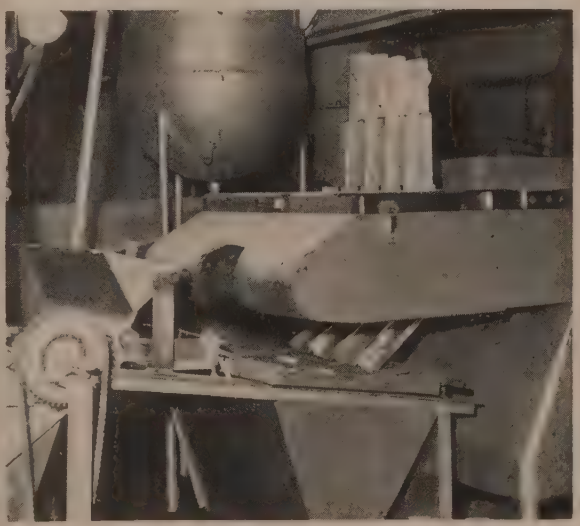
Advantages of the slabs are several.

First, there is a great saving in labor, as only four saw cuts are made per slab. These divide the slab into five strips whose width equals the length of the finished stick.

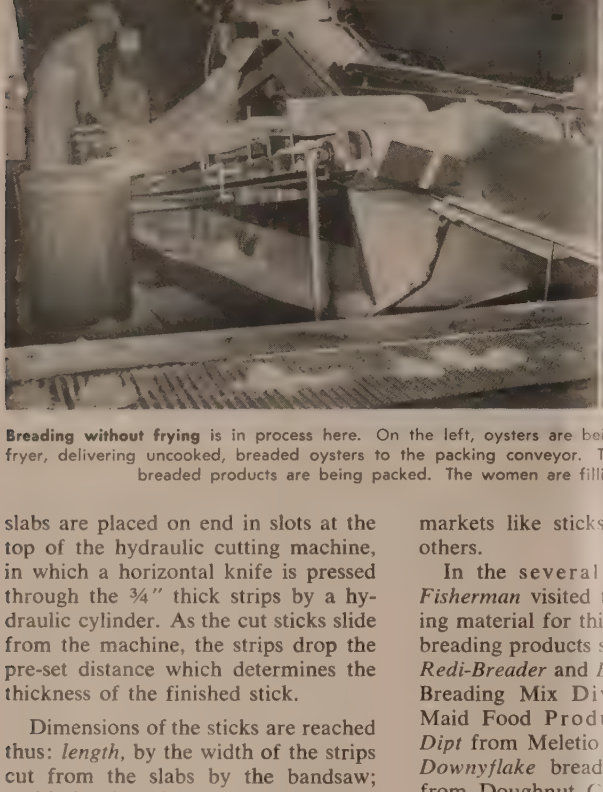
Second, there is the safety angle. The sawyer's fingers never need be near the blade.

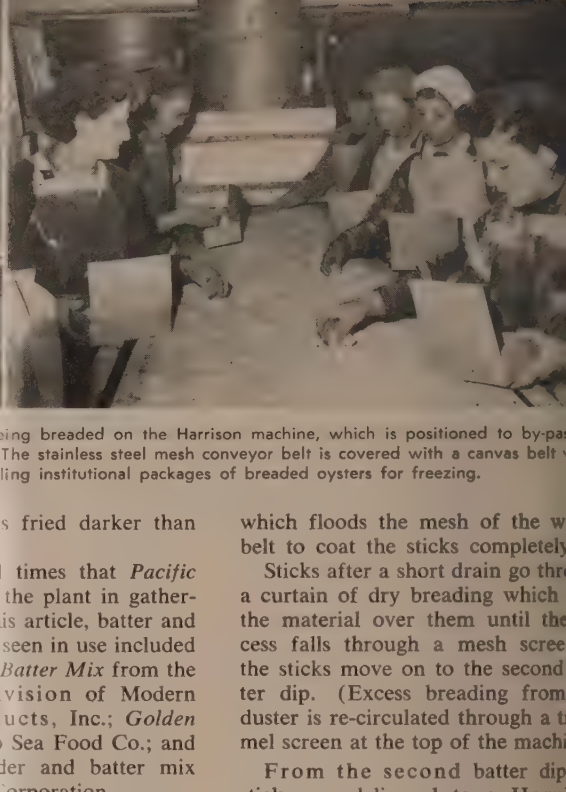
Third, breakage is reduced to a minimum.

Five strips as they are cut from the



Close-up view of the stick-cutting machine in which a hydraulic-driven knife clips sticks to precise dimensions from the four slabs feeding into the machine from the top. Batter flows from the kettle to the dusting machine.





Breading without frying is in process here. On the left, oysters are being breaded on the Harrison machine, which is positioned to by-pas fryer, delivering uncooked, breaded oysters to the packing conveyor. The stainless steel mesh conveyor belt is covered with a canvas belt breaded products are being packed. The women are filling institutional packages of breaded oysters for freezing.

slabs are placed on end in slots at the top of the hydraulic cutting machine, in which a horizontal knife is pressed through the ¾" thick strips by a hydraulic cylinder. As the cut sticks slide from the machine, the strips drop the pre-set distance which determines the thickness of the finished stick.

Dimensions of the sticks are reached thus: *length*, by the width of the strips cut from the slabs by the bandsaw; *width*, by the thickness of the original slab; *thickness*, by the distance that the strip is permitted to drop below the level of the knife.

● *BREADING* — Materials used are specified by the customer according to brand preference or the specialized requirements of the product. Thus it generally is found that fish sticks called for a very different formulation than breaded oysters; and some markets like sticks fried darker than others.

In the several times that *Pacific Fisherman* visited the plant in gathering material for this article, batter and breading products seen in use included *Redi-Breader* and *Batter Mix* from the Breading Mix Division of Modern Maid Food Products, Inc.; *Golden Dipt* from Meletio Sea Food Co.; and *Downyflake* breader and batter mix from Doughnut Corporation.

Specifications occasionally call for plain cracker crumbs, or special formulation at the customer's order.

Breading steps for normal coating are these:

As the sticks come from the hydraulic knife they are carried by stainless steel conveyor through a duster designed by Mr. Sathre and Mr. Soroe and built to their plans. The sticks pass through a curtain of light batter which floods the mesh of the w belt to coat the sticks completely

Sticks after a short drain go thr a curtain of dry breading which the material over them until the cess falls through a mesh scree the sticks move on to the second ter dip. (Excess breading from duster is re-circulated through a t mel screen at the top of the machi

From the second batter dip sticks are delivered to a Harr breading machine, where they ge final breading, with the material upon them by diagonal plows as move to the final screen and the ing process.

● *FRYING*—Primary unit in this of the process is a 20′ stainless fryer built by Brown Engineering Seattle, to the Sathre-Soroe plan. gas-fired with 24 nozzles of ¾′ burning in 2" immersion tubes a the width of the unit. The combu system is protected by a Minnea Honeywell control system.

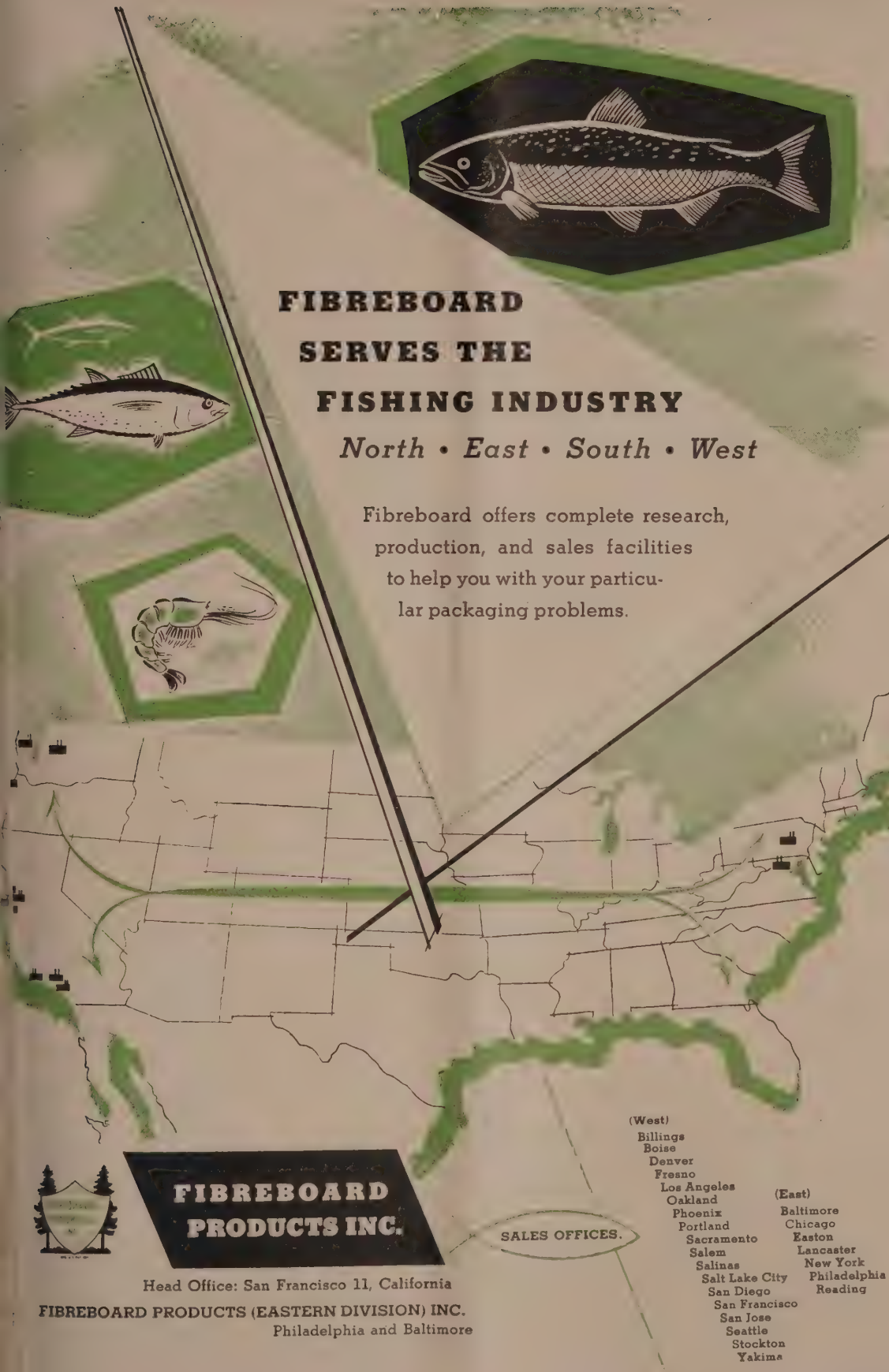
During frying, the cooking m is continuously filtered; and c settling in the oil can be removed out interruption of operations. ing the medium free of crumbs a products of their scorching is ess in keeping quality up and costs in food frying.

The frying medium is maintai 385° F. and the sticks are imm in it for 55 seconds.

All Chef frying is in hydrog shortening specially processed f service. and highly resistant t breakdown which produce stran vors and accelerated oxidation. the plant was visited Kraft sho of this specialized type was in

● *COOLING* — From the fr sticks pass directly into the 2 ing tunnel, also Brown-built to

Gas-fired fryer in the Chef plant is seen on the right, while beyond it is the big air-blast cooler into which the sticks pass immediately after leaving the frying medium.



Head Office: San Francisco 11, California

FIBREBOARD PRODUCTS (EASTERN DIVISION) INC.
Philadelphia and Baltimore

Ethics of a Scientist

ETHICS must be based upon certain beliefs. I state mine while admitting frankly that I have not ruled my life in complete conformity to them.

I believe that I earn my place in this world by the service I can give, not by what I can take from others. I am a part of humanity. Its health and prosperity are my health and prosperity. I help to build today what my children and my students will use and depend upon tomorrow. I am a part of a living, evolving, functional organism, and as that part I must plan my life.

I believe that my fellow man must serve as I do, and be served as I am. I owe him his due, his place in the sun, for he cannot help me unless I help him.

Because of these beliefs, and because I have chosen to serve as a scientist, I must play my part in making my science effective. I must further its development; must contribute to its store of knowledge; must take part in its activities.

My intellectual lineage is that of free men. My inheritance is from Darwin, Agassiz, and Jordan and from all those great men who have done things and in turn have left them for me to build on. My debt is to them, and I must keep alive the flame they have kindled. I owe them homage. I must serve no mean politician but rather the great ones in my science. I am a servant of the temple, not of the priest; of the principle, not of the man.

Because of these beliefs, and because I am one of a scientific group with a purpose in the world, the success of my fellows in their service is vital to me. I must help them to learn, to do, and to play their part. I must help them by recognizing their accomplishments and by giving them their chances. I must not only make my own contributions with my own research, but I must be a teacher for those who can use my help, always maintaining high standards.

Because of these beliefs and because of these duties, I must keep my self respect and that of my fellows. I must act each day in the consciousness of my responsibilities and my privileges as a scientist. I must not consciously permit myself to be used for unworthy purposes. I must not use my place, or have others use it, to defraud, or to render futile the processes of the society upon which we all depend.

Since my value, my worth to my fellows as a scientist, depends upon the contributions to knowledge that I make and upon their acceptance for use, these contributions must be real. They must not be pretense. What I offer must come from me. Since my contributions will be accepted and used only if I am respected and since my opportunities for service depend upon this, I must maintain my standing and my integrity. No false claims, no erroneous conclusions, no false theory, no stolen ideas must come from me.

That my fellow men can recognize me for what I am, so that they can see the metal in the instrument they use, I must not put forth false claims of merit. I must let others praise me if I am worthy. I must be modest in bearing, yet not avoid responsibility nor lack faith in myself or my abilities.

By reason of all these things, what I contribute it must be complete as a contribution and reach those who can use it. I must hold this completeness as a day-by-day objective. My aim must be the project for which I hold responsibility, not the money nor the position. I owe attainment of to my science must be worthy. To make it worthy, the objective as payment for the time and money invested in me. I must not labor day by day and leave my labor fruitless. In these things, I carry my own responsibilities; pay my own debts to the world. I am a scientist; not a serf.

—W. F. THOMPSON

Soroe ideas. Here nozzles deliver 5,000 cfm. of air from a blower to the band of sticks as they pass through the tunnel. This brings the temperature of the sticks down to 80° before they emerge upon the packing table.

Thence the packages pass quickly to a closing machine and on to the Battle Creek wrapping machine. Naturally, brand wrappers are supplied by the customers for whom the goods are packed. Inspection of the sample cabinet showed Western Waxed Paper Division of Crown Zellerbach Corporation and the Marathon Corporation widely represented.

● *FREEZING*—Wrapped cartons go immediately into fiber cases, generally of Fibreboard Products, Inc., manufacture, and these are piled on pallets with stickers between the layers.

As the pallets are loaded, a fork truck picks them up and carries them to the Rainier Ice and Cold St freezing tunnel, where they are frozen at –50° F. Storage is at –2

● It all takes teamwork, betwee tomer and custom-packer; betwe fice and plant—and it takes a ve line of carefully chosen mobile which can be moved in and out operation with little loss of tim none of effectiveness.

Chef seems to have all of tha

Canadian Cut-Back

Salmon Operations Trimmed To Run's Expected Pattern

or the first time since the pioneer-days of the British Columbia fish- the salmon traps at Sooke will be this season.

nother old landmark is passing n the scene — St. Mungo cannery he Fraser, which Nelson Bros. heries have operated for many s.

n the case of St. Mungo the plant eing dismantled and will probably be used again for canning salmon, the Sooke traps may come back t year.

n anticipation of a lighter catch n usual, British Columbia will have er canneries in operation this Sum-, probably an all-time low, for the d over the past few years to con-trate packing at a relatively few tegically located plants.

. C. Packers will operate its three canneries — Imperial, Namu and nyside — on the same basis as last on, except that Sunnyside will n later than usual. Canadian Fish- Co. will not operate a cannery at se Bay in the Central area, solely ause of the expected lighter pack e. Canfisco's Oceanside cannery Prince Rupert is starting later this on than usual. Nelson Bros. Port vard cannery in the same area, on other hand, is starting earlier.

National Fisheries, Ltd., in Vancou- will probably not be packing this on pending reorganization under ownership, so that there will ac-ly be three less canneries than last working on salmon in British Co-bia, and in addition no fish traps.

. H. Todd & Sons, operating ugh its subsidiary Sooke Harbor ing & Packing Co., has been the factor in the salmon trapping in-ry during the past decade. Last on it had five traps in operation, in recent years the number of s active at Sooke has been approx-ely that, although in 1954 only e traps were functioning. Normal-n recent years, the fish traps at ke have accounted for about 1% e total catch of Fraser River sal-n. But the real old-timers of the stry can recall the days when there e 30 fish trap sites in the Sooke and most of them busy.

ISH TRAP ECONOMICS — The ation of fish traps was a contro-ial issue for many years, and about years ago Chief Justice Gordon n headed a Royal Commission to inquire into charges that the traps were damaging to the industry and provided unfair competition to other forms of gear. The charges were found to be without justification, subject to restriction on the number of traps to be operated.

The Todd organization decided to close down the traps this year for purely economic reasons. It was not entirely because the run this year was not expected to be a big one, nor was it due to any feeling that the traps were no longer effective. The factor which influenced the company primarily was that costs of operation have risen drastically in recent years. If the traps are re-opened again in 1957, as they probably will be, it would not be surprising if mechanical apparatus were introduced to effect greater operating efficiency—and economy.

However, the closing of the fish traps, if only for a season, is somewhat of an historic event because it marks the first lapse in many, many years. Original establishment of the traps at Sooke goes back to the days when salmon fishing was a primitive business by today's standards; in a sense, the method represented an adaptation of Indian technique going back to prehistoric times on the West coast.

ST. MUNGO NO MORE — Another significant — and historic — change is Nelson Bros.' shutdown of St. Mungo, which had been an institution on the Fraser since the dawn of the industry in that area. It had been in almost continuous operation for considerably more than half a century. The name was adopted by the Anderson brothers, two Scotsmen who were the early owners, because St. Mungo was their birthplace in Scotland.

Apart from its other disadvantages, St. Mungo has been traditionally subject to hazards such as fog and sometimes difficult navigation. But basically the reason for shutting down St. Mungo was that it was too far up the river to be operated economically. Actual fishing in that part of the river directly tributary to St. Mungo is not what it used to be. Most of the fishing is being done outside the river, so there's no longer much use in running an up-river operation unless there are compensating advantages, and in the case of St. Mungo there aren't.

Canning machinery from St. Mungo will be moved down the Fraser to Steveston to be installed in a new Nelson cannery adjacent to the Colonial and fish meal reduction operations of the company. The new cannery setup will not be available to Nelson Bros. until 1957 when a much bigger pack than this year is expected, but arrangements have been made for the Great West Packing Co. at Steveston to pack Nelson Bros. fish this season on a custom basis. Another advantage in the integration of the company's operations at Steveston is that it will provide for more centralized management.

Shore-Based Gillnetters Of Japan Take Good Catch

The fleet of gillnet boats of moderate size which fish the high seas for salmon out of the ports of Hokkaido encountered exceptionally good fishing this season, principally for Pinks and Chums.

Where in some years the fish are taken 200 to 300 miles off the Hokkaido coast, this spring they were found within 50 miles or so from shore.

By June 22 in excess of 5,000,000 salmon had been landed by these vessels at Kusiro and two other principal ports of Hokkaido.

By that time the fish were working northward, passing the Bulganin Line, so that fishing for them became subject to Soviet permit. It was understood that 10,000 tons had been allocated to this shore-based fleet for operations within the Bulganin Line, but to date of *PF's* report from its correspondent, only 139 licenses for such boats had been received from the Soviet authorities.

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PACIFIC fisherman's NEWS

AUGUST 1956

LBACORE FLEET ASSES AS FISH EGIN TO SHOW

lthough the Albacore is an unpre-able fish in Pacific Coast waters, ermen and marine scientists alike e thinking as July began that 1956 ht well turn-out to be one of those od Albacore years."

here were a few scattered deliv-s in San Diego and San Pedro of ll loads of jig-caught Albacore in -June. Then at the end of June, *Quiz Kid*, a Kettenburg 38, skip-d by Wendell White of San Diego, vered about 10 tons to Van Camp an Diego. White has had the repu-n of being one of the first to de-Albacore at the beginning of a on.

s of July 6, at Terminal Island, Albacore fishermen members of Federated Fishermen's Associa-Inc., were meeting with cannery ials to attempt to reach a price the Albacore season. It was esti-d that the tonnage price might be ewhere between $350 and $400 a Albacore from Japan, in early , was priced, including freight, a little over $400. Although the nese winter fishing of Albacore d slowly, production accelerated. ne only 761 tons of frozen Alba-were delivered to San Pedro, im-d from Japan.

e first of the local fleet to take g and bait the Albacore on the seas off Mexico reported the fish

Rich Halibut Fishing Hit In Bering on Tag Charter

● The kind of fishing that halibut men dream about was encountered in Bering Sea the latter half of June by Capt. Arne Einmo's schooner *Polaris*, operating on a tagging charter for the International Pacific Halibut Commission.

The fish were found along the Bering Sea Edge, northwesterly from Unimak Pass toward the Pribilofs, where the shallow bank comprising all of eastern Bering Sea drops off into oceanic deeps.

Polaris took about 135,000 lbs. of fish in 10 days fishing, running up to a peak of 24,000 lbs. a day. Of this fish she was able to tag about 45%, the actual number of viable fish tagged and released being 1,715.

On June 27 *Polaris* delivered 73,000 lbs. of halibut, which was dead when caught or too badly injured for tagging, to the Aleutian Cold Storage Co. plant at Sand Point in the Shaumagin Islands.

She then returned to The Sea for a fourth tagging trip, which was to take her over the productive grounds along The Edge again, and thence on a course to Cape Newenham. From there she was subsequently to fish and tag along the ground back to Unimak Pass, completing a large triangle. In this trip particularly she will be combining exploration with tagging; and thus will keep moving even though she does encounter heavy fishing.

● Fishermen will undoubtedly give the Bering Sea banks a try during the special late summer seasons for Area 4. It has been a good many years since much gear was run there, due to the fact that fishing was never as good as expected, while it was a long haul home and not much time could be spent on the grounds. With the Sand Point plant available, this problem is much reduced.

In the early Thirties long-range schooners occasionally tried the Bering Sea grounds—the *Polaris* among them—but as the halibut banks of the

(Turn to page 24)

to be big longfins, larger than in the past few years, running to as high as 18 and 20 pounds.

At San Diego, Westgate-California was buying Albacore, as was Van Camp. High Seas, San Diego, affiliated with Star-Kist, was buying Albacore, but as this issue went to press, was trucking to Terminal Island and was not canning at the Point Loma facility.

At Terminal Island, all canneries were taking Albacore early in June; what might develop later as far as processing was concerned would depend, it appears, on whether or not the large fleet of boats working Albacore would take from Southern California waters, and from the high seas of Baja California, a catch that might "glut" the canners.

e Halibuter Lost

nest Gomoll, 71, who had lived 0 years on Sumner Island, near Protection, Alaska, disappeared ne. His boat was found drifting nt of his home with the tie-up on deck and the ignition turned . Two skates of halibut gear were ited up on his deck. He had been back 20 days from Cali-when he disappeared.

Power Block Controversy Laid Before Arbiter

Question of the proper share for a power block in purse seining was laid before Robert Carmody for arbitration. He was selected by Local 3 of the ILWU, representing the Puget Sound and Alaska seiners, and the vessel owners association. His decision is to be binding on both parties.

Ilmar Tarkanenm Wins

Winner of a new hat, presented annually by the National Harbors Board in Vancouver, B. C., to the skipper of the first halibut boat to reach port with a load during the season, is Ilmar Tarkanenm of Sointula, whose vessel is the 46' *Broughton II*.

The presentation was made by Captain B. D. L. Johnson, port manager.

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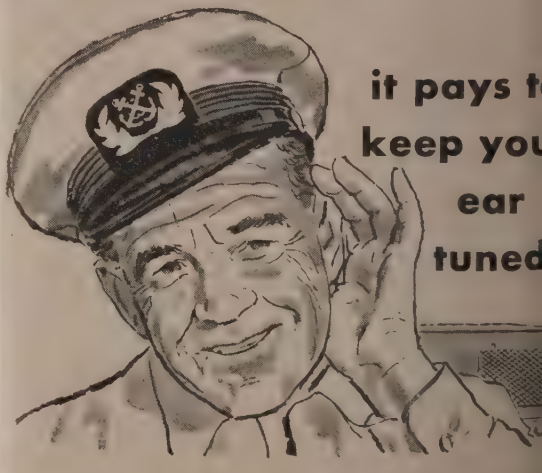

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Pacific Telephone

Pacific Fisherman's NEWS

August 1956 Volume 54 Number 9

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Publication Office
534 S. W. Third Ave., Portland, Ore.
CApitol 3-6348

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71 Columbia St., Seattle 4, Wash.
MAin 1626

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Rich Halibut Fishing Hit in Bering Sea

(Continued from page 21)

nearer grounds recovered they stole the show from the Bering side.

Biological analysts of the halibut commission aren't ready as yet to venture an opinion on the *Polaris'* exceptional fishing, as to whether:

1. She just shot her gear into pocket of fish, and the catch was a lucky fluke;

2. The heavy fishing resulted from fortunate timing that caught a seasonal movement of halibut on to the grounds fished;

3. The bonanza yield represents a general population that can be expected to produce at a substantial rate for some time.

● *Polaris* found something beside the best of fishing on her charter. The first trip, in the vicinity of the Shumagins, was normal enough, with reasonable early fishing. The second, however, which was based on Makushin at the west end of Unalaska Island, was beset by the foul weather of an Aleutian Low which settled down over the area and beat *Polaris* until she saw stars.

Before the end of her charter, she will go back to the Shumagin area and repeat her initial trip, fishing and tagging on the same ground visited before.

SAN DIEGO BITE-SIZE ITEMS

ELSINORE, sister ship of the *Westport* and *Independence,* was launched recently from the yard of National Steel . . . She'll fish for Westgate as part of the National Marine Terminal fleet . . . Mrs. Laura Orbita, 53, employed by Westgate, died in San Diego recently . . . It is reported that Joe C. Rogers has sold the *Valiant* to California Marine Curing and Packing Co. . . . *Black Douglas,* research boat working for the Fish and Wildlife Service, returned in May from a trip off the central California coast . . . Paul Quincy, 75, a former tuna boat owner, died at his home in San Diego in May . . . He was a native of Italy and had owned the *St. Vincenzo* and the *Salvadore* . . . these boats he sold and entered the wholesale fish business . . . Peter Madruga, part owner of the *Elena,* died at his home in San Diego . . . He was a native of the Azores, and is survived by his widow and four sons, Hallett, Anthony, Roy and Eddie, all of San Diego . . . Fisherman Marcos Valdez of Ensenada, Mexico, taken from the fishing boat St. Anthony, died shortly after the Coast Guard plane brought him to San Diego for medical treatment.

JOHN RAWLINGS, in the employ of the California Fish Canners Association, is working aboard the tuna clipper *Paramount* in a study of refrigeration of tuna at sea . . . High Seas plant, operated by Star-Kist, has closed down . . . John Xitco is spending part of his time on Terminal Island . . . He is the High Seas manager . . . Nick Trutanic, Star-Kist production vice president, in early June was in Europe . . . Antonio Scorlich, who was 91 at his death, passed away in San Diego . . . He had sailed and fished from San Diego from 1900 until 1938, when he retired.

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Ernest Hendrickson

Eldred Hendrickson

Halibut Season Closes Right on Quota Bullseye

● "Right on the nose" the early returns from Area 2 halibut fishing showed with respect to the June 27 closing for the local area. Catch during the 46 days of the legal season was expected to be within 50,000 lbs., plus or minus, of the 26½ million-lb. quota.

This was on the basis of figures available to early July.

The season closing was the latest for the area in a good many years, but this doesn't mean that fish were scarce.

Of the 46 days in the season, the fleet was idle voluntarily for 8 days at the start of the season in a market-stiffening maneuver. Then the season was lengthened 9 days on the basis of the voluntary stay-in-port between trips applied by the fleet to stretch landings and lift prices.

Below-average weather was considered by the Halibut Commission staff to be responsible for extending the open season by three days.

Finally, out-and-out scarcity of fish in the Lower Hecate Strait area is credited with adding two days to the time required to catch the quota; and another day is figured as being the result of a tendency for some of the vessels, notably Alaska craft, to run their fish to the higher-bidding rail terminal markets.

● Goose Island fishing was a definite flop during the early part of the season. That is generally admitted, but study of the landings and logs of boats fishing Upper Hecate Strait and the Southeast Alaska grounds shows much better results, with the latter areas actually yielding well above 1955 on the basis of catch per skate during the early trips.

One result of the 8-day delay at the start of the season was to throw the initial trip into a poor tidal cycle, and this is believed to have had something to do with the poor fishing found by the local boats on Goose Island grounds during the first trip.

Power Block Shares Awarded by Arbiter

Joe Jurich, president of Local No. 1 ILWU, announces that the arbitration award of Robert Carmody fixes the purse seine vessel's share for boats using effective power blocks as:

Nine-man boats, 34%; eight-man boats, 35%; seven men or less, 35.5%.

HALIBUT WEEK is proclaimed in Washington as **Gov. Arthur B. Langlie** hands signed proclamation for Halibut Week to **Mrs. Gus Molvik,** originator and first president of the Halibut Fishermen's Wives' Association. Standing: **Mrs. Harvey Harbaugh** (left) and **Mrs. Harold Webostad.** Seated at left: **Mrs. Carl A. Johnson,** Halibut Week chairman.

Halibut Week Proclaimed By Governor Langlie

Halibut Week, established by the Halibut Fishermen's Wives Association to promote the appreciation and consumption of halibut, got a lift from Washington's Governor Arthur B. Langlie in July in an official document calling upon the people of that state to observe the week and through it support "our important halibut industry through increasing use of this outstanding product of Pacific Northwest waters."

July 22 to 28 is Halibut Week, and the Halibut Fishermen's Wives Association reports wide and warm cooperation in their program of emphasis for this pre-eminent flatfish at a time when the production season is nearing its close.

In his statement Governor Langlie pointed out:

"The halibut fishery of the North Pacific provides the major world-wide source of this important food fish. The State of Washington is the main distribution center of millions of dollars worth of halibut for the national market. Maintenance of the state's position as leading supplier of this high quality food is important to the welfare of the fishing industry and the economy of the state."

Fire Destroys Troller

Lady Rae, troller and gillnetter owned by Herbert Bradley of Wrangell, Alaska, burned to the water-line near Drag Island recently with a reported loss of around $10,000. Bradley said he was in the area looking for trolling poles. Harry Ukas, who was trolling nearby, had run alongside and the two men were having supper on Ukas's boat when Bradley noticed smoke coming from his. As they got out on deck flames started shooting up from the Bradley boat. Unable to board it because of the flames, they cut the anchor lines and drifted away. The vessel burned about three hours. They then beached the hull, but it was a total loss.

"Deep Sea" Is Prepared For 2nd Crab Trip

After delivering a satisfactory trip of frozen King crab to the cold storage at Bellingham in June, the steel trawler *Deep Sea* tied up at Seattle for outfitting preparatory to her summer trip, due to start in July soon after presstime.

Lowell Wakefield, president of Wakefield's Deep Sea Trawlers, Inc., owners of the vessel, expected to take his family north as far as Port Wakefield, on Raspberry Strait, where the firm's other two vessels, *Shelikof* and *Foremost*, have been delivering. These two boats are working on salmon cannery charters during the moulting period of the crabs.

Radar For "Claudia H.", Under Tender Charter

The combination fishing boat *"Claudia H."*, owned by Harold Hanson, Seattle, has been equipped with a Radiomarine CR-105-A radar, supplied by the Seattle Ship Supply Co. The vessel will pack fish this summer for the Pelican Packing Company at Pelican, Alaska.

Carl Serwold's Seattle dragger *"Tordenskjold"* also has a Radiomarine radar of the same model.

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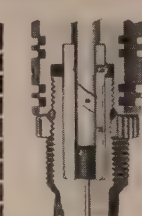

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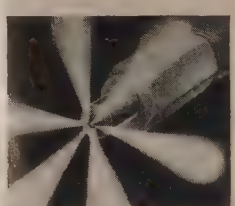

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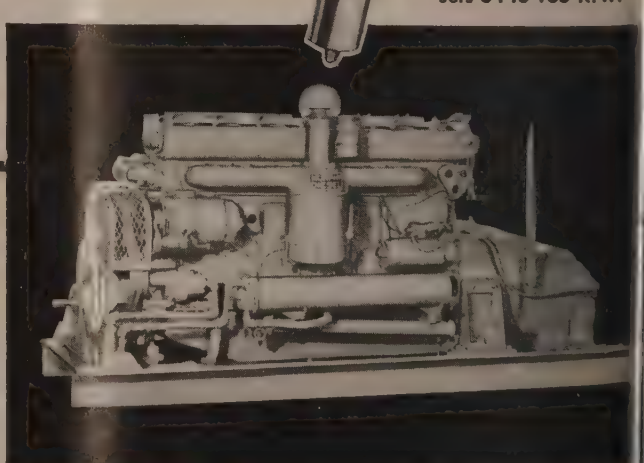

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)regon Trawl Rules Changed by Orders

Two changes in regulations governg ocean commercial fishing in Oreon coastal waters became effective ine 20, 1956.

Only otter trawl nets of a mesh ze of 3" *or less* or 4½" *or greater*, retch measure between knots, now e lawful. The new mesh sizes have en installed to provide maximum otection for small-sized Dover, nglish, and petrale sole and still alw a legal harvest of Pacific ocean rch. Perch gill badly and are difcult to remove from larger sized esh.

An additional revision provides that e incidental catch of Dover, English, d petrale sole, prohibited for use for duction or as animal food, shall not ceed 2000 lbs. or 20% by weight, hichever is the greater, of a single nding, sale, or purchase.

ire Damages Monterey Boat

The purse seiner *Vivian A* of Monrey, with skipper, Salvador Arancio, d three crewmen aboard, caught fire f Malibu, Southern California.

The crew and skipper left the boat oard a skiff. A boat from Paradise ove, a sportfishing center, took the rned craft to shore. The crew are om San Pedro.

reak Seas Overwhelm una Boat "Leona B"

Leona B, one of the most successful small tuna bait boats, now lies nder the sea off Manzanillo, Mexico. e was owned by Richard J. Francis Long Beach and was skippered Don G. Coon.

Francis said he was at the wheel hen two freak swells struck at an terval of less than two minutes. he first knocked the boat on her am ends and she failed to turn ack on even keel. The launching of o skiffs took Francis, Coon and ur fishermen away from the sinkg boat.

Two days and nights passed before e fishermen landed at an isolated exican settlement. The *Mercator*, a rge tuna boat, picked up the men Manzanillo and took them to Cape n Lucas. From the port at the tip Baja California the fishermen took taxi to La Paz, and then flew to ijuana.

The *Leona B*, along with the *Mertor*, *Bond*, *Clara Marie* and *Victoria*, as fishing for the Cape San Lucas na cannery. All the four boats are om San Diego.

Trawlers Hit Hot Fishing On Banks Hard-by Humboldt

● Trawler landings at Eureka in late June and early July reflected exceptionally good fishing, often within a very short run of the Humboldt Entrance.

Top trip reported was that of the *Rainbow*, which unloaded about 80,000 lbs. of bottom fish at the docks in Fields Landing June 28. This is one of the best hauls reported in the area for a long time. The *Rainbow*, skippered by Dick Young, had been out for three days and was fishing just north of Eureka.

Quest docked the same morning with about 18,000 lbs. of bottom fish, mostly Dover sole. Skipper Albin Anderson only made two tows, fishing just off the bar.

Fishing was light to mid-June. Up to that time best catch was made by the trawler *Sitka* which docked at the Hunter-Foland landing with 35,000 lbs. She is skippered by Oliver Stiles.

When the upturn came one of the high producers was the "baby clipper" *Dorene B.*, converted from tuna fishing to trawling. Capt. Jame Riley was driving her, for she was in port every day or so with a trip.

Just how hot the fishing was is indicated by the experience of *Joseph Alioto*, out of San Francisco, which pulled into the Consolidated Fisheries docks at Eureka late in June with a load of bottom fish that Skipper Loren Campbell said was "one of the best in a long time."

The *Alioto* left port the morning before and made for waters south of the bay. By late afternoon, Campbell said, they had so many fish that they ran out of ice and had to put back to port. They docked with 15,000 lbs., mostly Dover sole, from less than a day's fishing.

Glen Fennel, new skipper of the *Stephanie*, a dragboat out of Eureka, took the vessel out on a "trial run" to get acquainted with her gear. He came back into the Humboldt Bay Fisheries docks with a load of about 6,000 lbs. of bottom fish from the trial. He left again next day, to settle down to fishing in earnest.

Men Saved by Plane as Fish Boat Takes Its Final Plunge

● One of British Columbia's best known offshore fishermen, Captain Norman Ryall, his engineer Stewart Doig and crew member Ronald Innas were rescued recently off Galiano Island by a Royal Canadian Air Force flying boat only seconds after their overturned fishboat *I'm Alone III* sank..

"The rescue was fantastic, like something right out of a storybook," related Captain Ryall, who was one of the first Canadians to go far afield for Albacore several years ago and has been active in the industry for a long period.

"Almost the second the rescue plane hit the water our boat reared up in the air and sank," he continued. "We had thought it wouldn't be able to land because the sea was so rough. There was an 8' swell running, and the wind was about 25 miles an hour.

"The boat capsized about 4 a.m. I can't say why, but it wasn't the weather that caused it. The three of us grabbed hold of the rudder and propeller as she turned, and figured there was enough air trapped inside to keep us floating until help came. The skiff was thrown clear, upside down, with no oars.

"Doig swam about 70' to the skiff, then had a terrible struggle to get it right side up. But the wind was carrying him further away all the time. He was finally picked up by the tugboat *Ace*. (Dolmage Towing Co.'s River Ace).

"Our boat had wells full of salt water in her, carrying a catch of crabs worth about $3000. They've all gone back where they came from. The boat was a little down by the bow, but we felt she would float as long as we hung on. Then a Trans Canada Airlines plane spotted us. They did a swell job, circling around for an hour until the rescue plane could reach us. But as the rescue plane came near, the angle of our boat changed, and just as the plane touched down she lifted straight up and slid down. Another 10 minutes or so, and the story might have ended very differently. Afraid? We were terrified, but we didn't panic."

Standard Engineer's Report

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"WE HAVEN'T TAKEN UP ONE BEARING in the five ye we've used RPM DELO Lubricating Oil," says Ch Engineer Jim Martin (above, left). "And in t time we haven't been bothered with any kind of p ton trouble." The Nancy Hanks works off t Southern California coast as a purse seiner; op ates 12 months of the year.

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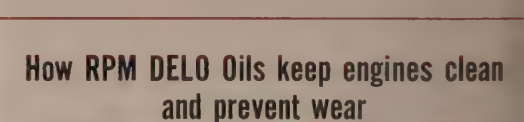

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Monthly digest of present-day pioneering methods and equipment in world fisheries.

By PETRALE

ına Commission Tagging ellowfin and Skipjack

Out of San Diego, the tuna clipper *ıry Lou* is reported to have taken) biologists from the Inter-American ›pical Tuna Commission aboard for current cruise. The biologists, Wi- Klawe and Gordon Broadhead, ac- mpanied the clipper to carry out tag- g of Yellowfin and Skipjack tuna the Revillagige region off the tip Baja California. Both species were ged with the spaghetti type of tag. covery rates for tagged tuna have ierally been low, but it is hoped t improved tagging techniques will rease the rate of recovery. The ifornia Department of Fish and me has also been continuing its ging work and has a crew aboard clipper *Southern Pacific*.

The Tuna Commission is also busy bait studies and has been engaged tagging anchovetta in the Gulf of ıama. A small plastic tag attached a wire leader is used in this in- ıce.

obb's" Mid-Water Trawl ork Continues Productive

Donald E. Powell, chief of the th Pacific exploration and gear re- ch section for the Fish and Wild- Service, reported the *John N. Cobb* made "promising results" in off- e mid-water trawling. The vessel, ing with two different types of -water trawls, caught more than species of fish in waters off the hington and Vancouver Island ts. The nets were towed at depths n near surface to within several of the bottom. The largest catches e predominantly hake, black rock- and dogfish. One two-hour tow, e at 37 fathoms (half-way to the om), produced a catch of 1100 lbs. lack rockfish and 320 lbs. of hake. to 1800 lbs. of dogfish were cap- d with the Canadian mid-water ing trawl. No concentrations of ring were located on the echo- ding equipment and only small hes of this species were made.

naller amounts of lingcod, smelt, Pacific ocean perch were also n a number of tows. A rather rising number of pink shrimp was also taken in mid-waters off the northern coast of Vancouver Island.

For further information on mid-water trawling, see the July issue of *Pacific Fisherman*.

"Paragon" and "Celtic" Run Gillnet Tests

The schooners *Paragon* and *Celtic* have been chartered for off-shore gillnet fishing by the U. S. Fish and Wildlife Service. The vessels will be used for offshore gillnet fishing in the northeast Pacific Ocean and will carry out part of the program of the North Pacific Fisheries Commission. The schooners will carry gillnets of varied mesh and approximately 20′ deep for capturing salmon in the offshore waters. The *Paragon* participated in similar work during 1955 and encountered heavy seas and winds close to 90 miles per hour during the latter part of the survey. Charting of the two vessels makes a total of four Puget Sound schooners engaged in work for the U. S. Fish and Wildlife Service. All four schooners were recently fishing in the trawl fisheries. The vessels are accompanied by technical fisheries workers from the U. S. Fish and Wildlife Service.

California Trolling Gear And History Is Reviewed

A new bulletin issued by the California Department of Fish and Game describes trolling gear in detail. The bulletin, written by W. L. Scofield, defines the component parts of the rigging and line set ups for Albacore, salmon, and other types of trolling. A number of drawings and photographs are used to illustrate the make up of the gear and arrangements. Other details covered are histories of both the salmon and Albacore troll fisheries of California, legislation involved in the fishery, lures used, depths fished, trolling speeds, electronic devices, and the species caught. Fishermen who are beginners in the troll fisheries might profit by reading the new fish bulletin, "Trolling Gear in California." The booklet is published by the California Department of Fish and Game Marine Fisheries Branch, Terminal Island, California.

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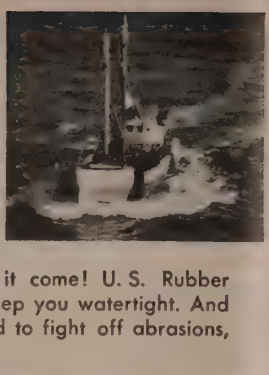

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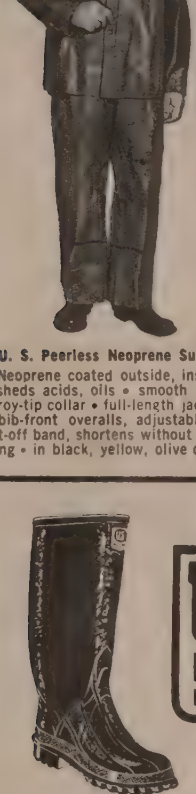

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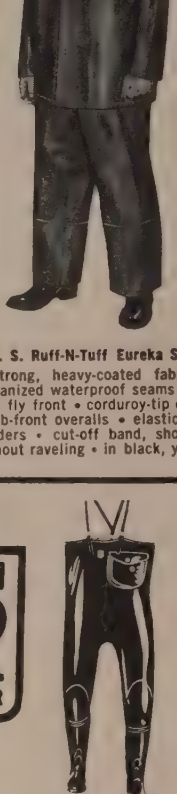

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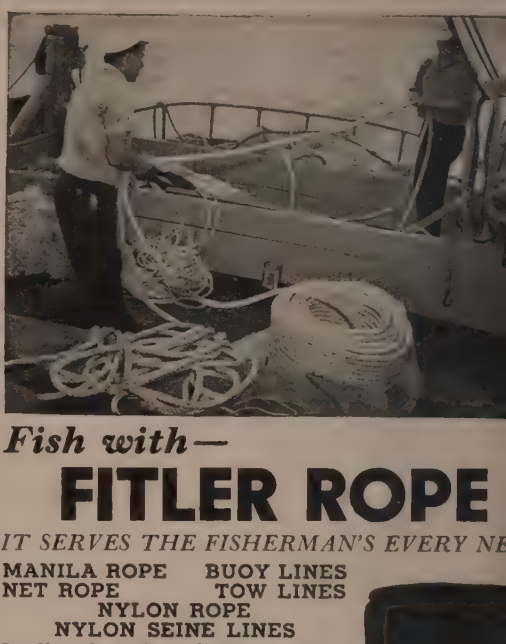

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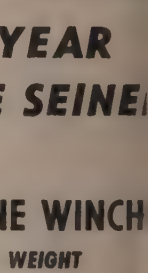

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roism of Rescuers cognized by F.C.A.

To Skipper Ben Fukuzaki, co-owner the purse seiner *Stella Maris,* and crew, there has been presented for oism in the rescue of the remain- crew of the *Western Explorer* a que which reads:

In recognition of the *Stella Maris* its crew in saving the lives of en of the crew of the *Western Ex- rer,* this plaque is gratefully dedi- d by the members of the Fisher- n's Cooperative Association of San ro."

kipper Fukuzaki piloted a small er skiff which made three trips Secorro Island, where survivors of *Explorer's* wreck were clinging to rocks, during a sudden tropical m, commonly known as a chu- o in Mexican waters.

rew members of the *Stella Maris* ude Carl Shiba, Yoshikazu Uyseda, Iwasaki, Jack Shundo, Akira Ha- hi, Stanley Hirotsu, Min Chikami, ejiro Shibata, Junji Tani and Che- su Kishiyam.

oy Seiner Sold

he baby purse seiner *City of Pa- Grove,* Monterey, owned by Joe lo, has been sold to Mateo Man- , San Pedro.

For bravery in rescuing the survivors of the crash of the "Western Explorer" on the rocks of Secorro Island, George and Ben Fukuzaki, co-owners of the "Stella Maris," on the left, receive a plaque from Mason Case, manager of the Fishermen's Cooperative Association. Frank Manaka, skipper of the "Western Explorer," is at the right.

"Defiance" Is Lost Near "Explorer's" Grave

Defiance, one of the most successful vessels in the tuna bait fleet, sank recently near Socorro Island, where in May the *Western Explorer* was lost in a tropical storm.

Ted Lucich is the skipper and part owner. The survivors were reported taken aboard the new steel tuna clipper *Concho.* The president of the cannery for which the vessel was fishing, South Coast Fisheries, said he did not believe the boat had much fish aboard, since she had left San Pedro only June 12.

The *Defiance* was a steel boat, built in 1947 in Tacoma, originally as a purse seiner. She was 106' long.

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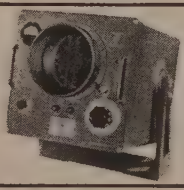

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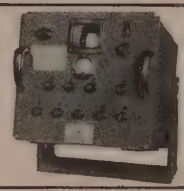

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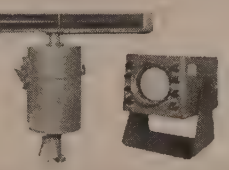

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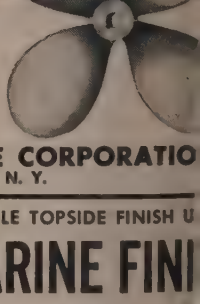

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rthern Boats Head ıth for Albacore

he boats are going by as close to- er as pickets on a fence," reported fisherman in Moss Landing. The push for the Albacore grounds ıed a peak the latter part of June. ıon fishing was only fair for the ority of boats out of Eureka and men were anxious to start a new ın, fishing for Albacore out of Diego and San Pedro.

ıats from northern ports on the ic Coast stopping in Moss Land- for fuel and supplies included: *II, Western Skies, Mandy, Ample eso II* and *Cavalier*. Local boats ng the fleet were Hendry Beck's *lia B.*, Pete Anderson's *Venture* Bruce North's *Judy II*, J. V. *'s Christine*, Orville Patterson's *r Spray*, Frank Hart's *Mabel M.* Walter Aldridge's *Pelican*, skip- d by Ed Weidenaar.

onterey salmon trollers fished at ow Bay and Avila during the h of June, while Moss Landing headed north to Bodega Bay and a Cove. Weather held up fishing ıe latter area, but fishermen re- d when they could get out they ıged 500 to 600 pounds a day. A run of large fish near Avila made table catches for many boats . There was practically no fish- ı Monterey Bay. After an abund- of fish in April and early May, salmon almost completely de- d these waters.

ck Maier, who owns the trollers *ade* and *Nora R.*, has signed on aster of the dragger *San Vito*. nd Olson will fish with Currt on the *Ruby II* for the Albacore n. Currt lost his troller *Sonja* off lexican coast last season. Ralph l has installed a new Chrysler n in his boat *Tramp Troller*. Nick has purchased the salmon boat rom Mel Martin. Nick formerly d the *Ruby K*, now renamed *M.* and owned by Art Erwin. Jacobsen, skipper of the *Norge*, nning a plane trip to his native ay. His son John, will fish the during Albacore season. John on recently launched the *Gladys*, troller, completely fibre-glassed owered with a Chrysler Ace. Bill son left his *Western Skies* in Landing when he flew home for aughter's graduation. His son th, accompanied him on the re- rip and they left shortly after- for San Diego. Bill Harder Jr., ing with his father on the *Sea-* Ole Beck, who lost his *Laurole* all, is on a three-month trip to any where he will visit his ter, son-in-law and their three sons. Pete Aspen of the *Visit*

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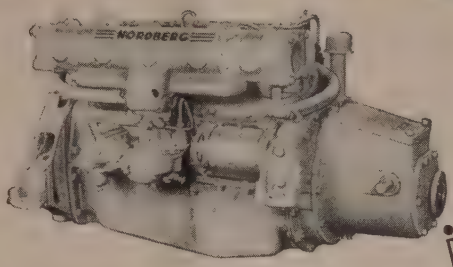

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"KANAK" WA 6710

was in Moss Landing before he for the tuna grounds. Pete Wil fishing on the *Hattie-Jo*. John Sh of the *Joyce* took a few days o tween salmon and albacore fishi a visit with his family in Santa Doug Davis of the *Commotion* to Medford for a try at sports f in the Rogue River. Bob Taylo named his boat *Mog-Mog* aft island in the South Pacific whe was stationed during the war.

A malicious person turned the valve in Tom Stowe's boat *Lei* while the boat was on the beac copper bottom painting and com ly ruined the engine Tom had ju stalled. Moss Landingers, irate the occurrence, are looking fo culprit.

Roy Johnson Dies On Costa Rica Trip

Roy Johnson, who was skippe part-owner of the "baby" tuna c *Sheryl*, died in Costa Rica rec He had a heart attack aboard the then improved, but at the age o he left the fishing fleet to whi had made great contributions. understood that he was buri Costa Rica, and that the boat re there, to fish under the comma Al Dawson, the boat's engineer.

Skipper Johnson was known Alaska and down the Mexican C

Troller "Isabel" Founder

The 44' fishing boat *Isabel* c San Francisco sank late in June fathoms off the southern Hun coast.

The skipper was picked up b fishing boat *Ura*, which headed t Fort Bragg to obtain a doctor f rescued man, who was reporte fair condition," but suffering fro posure.

Petition Requests Eureka Channel Deeper

Petitions requesting aid in the channel along the Eureka front deepened to allow fishi sels to dock safely are being circ The petitions state that the chan not been dredged since 1938.

Petitioners point out that tions have become so bad that a points there is only two or thr of water in front of docks at lo

"Asama Maru" in Berin

As an advance scout boat Japanese salmon fleet, and also a cargo of flatfish, the 1,000-to er *Asama Maru* of the Nippon K.K. fleet reached the shallow portion of Bering Sea in M was expected to operate th about one month.

SAN PEDRO SEINE SETS

San Pedro Boy, purse seiner, has a w skiff, a 24x14, powered by a rysler Ace special, 2½:1 reduction. ardesich Brothers built the boat, and y also have completed two smaller ffs for purse seine boats . . . Borti trich is back from a trip to Star- t operations in South America . . . d another Star-Kist man has re- ned to home port . . . Tom Bezich, m Japan . . . Mrs. Louis Kanaster accepted the chairmanship of the nmittee which selects the Skipper- for the annual San Pedro Fisher- n's Fiesta, which is scheduled this r for September 15 and 16 . . . in meantime the contest for selection the theme of the Fiesta—involving decorations of the boats in the an- l parade — goes on . . . A Coast ard patrol plane recently removed ill crew member, Albert Carpenter, m the *U. S. Liberator* and took him San Diego for hospitalization . . . hermen's Cooperative Auxiliary As- iation has donated money to the er Kenny Foundation.

FUNERAL SERVICES for three he five fishermen lost in the wreck the *Western Explorer* on Secorro nd have been held: prayer service was held for Mike Bebich, 47; services for Masayoshi Masuda were held at a Long Beach Presbyterian church. He was 36; and services for Shiro Matsushita, 40, were also held at the same church. Matsushita was the brother-in-law of Frank Manaka, the skipper of the ill-fated vessel, which went on the rocks in a tropical storm . . . Angelo Stagnaro, San Pedro fisherman, died recently in a San Pedro hospital. He was 65 and a native of Italy . . . Harold Young has joined the staff of Bolstad Sales & Service . . . Biard members of the Fishermen's Cooperative Association Auxiliary staged game night plans in June in the meeting room of the Cooperative. Mrs. Bill Suytar and Mrs. Pete Andrich were co-chairmen of the event.

★ ★ ★

Roy and "Babe" Johnson of the *Christe II* motored to New Orleans where they talked with shrimp fishermen in the Gulf.

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Mark it on your chart. There's a Union Oil Marine Station at Sausalito now!

It's owned and operated by Shirley L. Morgan and Clifford M. Pedersen who are well known to San Francisco Bay boat owners as partners in the Clipper Yacht Co., Sausalito, since 1946.

This newest Union 76 Dock is located on the northwest side of the turning basin in the Richardson Bay Ship Channel. Water around the dock has been dredged to a depth of 10′ at 0 tide and there are 260 of tie-up space for fast servicing.

Next time you put into Sausalito make it a point to stop for service at the new Union 76 Dock by the Sport Fishing Pier.

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Researcher—One of three new, steel, 130-ton research vessels accompanying the Japanese high seas fishing fleet this season. The Soviet Union laid stringent restrictions on the use of such vessels in its 1956 working agreement with Japan. Photo by Roy I. Jackson.

Tripartite Researches 1956

Plans for co-ordination of the far-reaching research program of the International North Pacific Fisheries Commission, headed by E. W. Allen of Seattle, were furthered during a recent visit to Japan of Roy I. Jackson, executive director.

Mr. Jackson returned to his office in Vancouver, B. C., well satisfied with progress made and the spirit of co-operation with which the Japanese have embarked on their part of the program.

Mr. Jackson told *Pacific Fisherman* that, while the over-all effort of conservation and management naturally suggests complications and difficulties, effective work is being accomplished in complete harmony.

One of the purposes of Mr. Jackson's tour of Japan was to assist in preparing the way for the 1956 annual meeting of the Commission, to be held in Seattle in November. Indefinite postponement of the Honolulu meeting of the commission's committee on biology made it desirable for Mr. Jackson to advise Japanese fisheries scientists concerning the research that has been carried on by Canadian and American groups and obtain equivalent data from the Japanese.

Mr. Jackson also made use of the opportunity to increase his personal knowledge of Japan's fisheries industry. At Hakodate he attended the specularly colorful sailing of Japan's North Pacific mothership salmon fleet, an event which he witnessed with Koichiro Kobayashi, vice president of the Nichiro Fishing Co. and a member of the advisory committee of the Japanese national section of the Commission. They watched the sailing of 12 motherships and more than 300 catcher boats carrying more than 10,000 fishermen. An opportunity was also provided for inspection of two of the three fully equipped and refrigerated research vessels which Japan is using this year in the Commission's research program. Both these vessels, fresh from the shipyard, are of steel construction with a tonnage of approximately 120-150.

These three Japanese vessels will be working on the general problem of salmon distribution in the Japanese area and samples will be taken for study of orgin, etc. Japan is also contributing two oceanographic vessels for survey work. Operating in the U. S.-Canada zone, the U. S. Fish and Wildlife Service has four vessels studying salmon distribution and two on oceanographic surveys, together with two tagging vessels provided under contract by the University of Washington Fisheries Research Institute under the direction of Dr. W. F. Thompson. Canada is providing two vessels to check salmon distribution and a Canadian naval frigate for oceanography. In addition, the research vessel *Manning*, operated by the P.O.F.I. at Honolulu, will cruise far enough north to contact the salmon zone.

All these vessels, manned by professional fishing crews and accompanied by scientists, are taking part in the most extensive organized ocean sampling of fish stocks ever undertaken. The joint survey represents a major step towards finding the distribution and migration routes of salmon and other fish in the North Pacific, having in mind the separation of Asiatic and North American stocks. Scientists hope eventually to find if overlapping of races occurs, and if so at what point the two populations merge.

Tentative arrangements were made during Mr. Jackson's visit for a rendezvous of Japanese and American research vessels in the Aleutians this Summer in order to exchange samples and compare research and sampling techniques. The Japanese national section requested that some 350 samples each of Sockeye, Pink and Chum salmon, frozen, taken from various locations in the U. S.-Canada zone be provided for study, and in return the Japanese undertook to provide whole frozen salmon from various locations fished by Japan's research vessels, and obtained by motherships in the Okhotsk Sea and Northwest Pacific. Scale samples are also to be exchanged for study, as well as scientific data.

Dr. Ernest E. Clark--

A Man to Trust

● Dr. Ernest D. Clark retires August 1 as director of the Northwest Branch of the National Canners Association, and as secretary of the Association of Pacific Fisheries.

Never a canner, he has broadly influenced canning; just *how* broadly only the older men understand.

Although it was to salmon canning and the solution of its problems, technical, official, and human, that he gave 37 years, all phases of fish packing benefitted from the work of the man who pioneered the application of chemical and physical science and technology to the specific problems of fish canning.

Dr. Clark came to the salmon industry in 1919 from the United States Bureau of Chemistry at a time when the salmon industry was in serious trouble with that forerunner of the Food and Drug Administration. World War I had disclosed blunders and abuses which sound men in the salmon industry knew must be corrected if the business was to emerge from the pall which had been cast upon it.

They knew Ernest Clark as a sharp, sound, honest, capable official — the kind of a man to show the industry where it was wrong and how to get right.

This he did, and through the years salmon canning — and other forms of fish canning with it — emerged on a new level of quality and respect in the food manufacturing business. Moreover, the industry had done this itself — with the help of Ernest Clark.

Not only did he contribute greatly to the reformation, but through the years he persistently led the way to higher standards of quality, and did much to convince the federal authorities and the American public that salmon was worthy of full confidence. Willingness of the Food and Drug Administration to work closely and on a basis of trust with the salmon industry was largely due to Dr. Clark.

As an association secretary he stands apart as one who played the role for 37 years without acquiring the impress with which association work so often marks men who follow it. He was no man for petty intrigue, nor one who sought to build himself up as indispensable.

Through 37 years he has given full proof that here is a man to trust.

Dr. R. W. Clough, Salmon Technologist, Passes Away

A year ago Dr. Ray W. Clough retired as chemist and assistant director of the Northwest Branch of the National Canners Association.

On July 1 he died in Montreal of a heart attack, suffered while he and Mrs. Clough were making a leisurely automobile tour to visit relatives in the eastern states. Dr. Clough had suffered minor heart attacks some years previously, but recently had been considered in good health.

He was intimately identified from its beginnings in 1919 with the campaign to raise the quality standards of canned salmon. He joined the staff of the Northwest Branch of the National Canners Association when it was established immediately after World War I, and continued with it until his retirement last year at age 70.

A Vermonter by birth, Dr. Clough was educated at Tufts College, Boston, taking his doctor's degree at the University of Washington on the basis of research work done on indol as an index of decomposition. This was shortly after he had left the Bureau of Chemistry staff at Seattle to become the first chemist of the NCA Northwest Branch.

Dr. Clough contributed richly to raising the quality standards of canned salmon, and with Dr. E. D. Clark and the late O. E. Shostrom developed the system and criteria now universally used for the examination and quality grading of salmon.

Dr. Clough was buried at Randolph, Vermont, where he was born.

National Canners Buy N. W. Branch Building

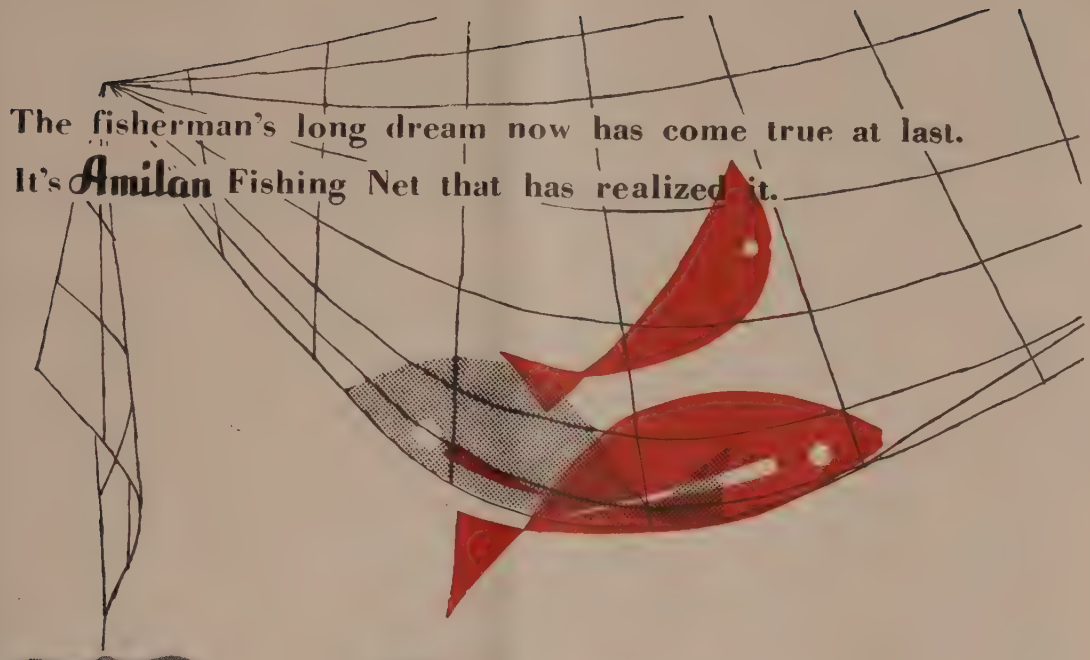
Headquarters for the Northwest Branch of the National Canners Association this fall will be located at 1600 Jackson St., Seattle, where the Association has purchased a building is converting it to house all NC tivities — offices, laboratory an mon inspection service.

Offices are expected to be tained in the Skinner Building October.

With the first of August, offi the Association of Pacific Fis also are being established there temporary basis. Space occupi the association in the Colman ing is being surrendered, and w used to provide more adequate ties for the Alaska Salmon Ind Inc.

June Mackerel Catch 50% Above Anchovies

Southern California's macker produced 1,546 tons, resultin case pack for June of 13,800 chovy production was only 1,03 case pack of 30,907.



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Arnold Waring, manager, Haines Oyster Co., an oystermen's cooperative, with 6-oz. and 4-lb. cans of frozen oyster stew. In the background, solid fiber cartons of fresh oysters in glass, packed in flake ice for shipment.

Introducing Something New— Pacific Frozen Oyster Stew

• Frozen oyster stew—packed under the *Haines* brand, famous in the Pacific shellfish trade since 1892—sold itself into wholly satisfactory market position, on its merits and backed by merchandising, in its first season; and it will be joined on the market shortly by another Haines product, *canned* oyster stew.

In 1955 the Haines Oyster Co., an oystermen's cooperative, introduced its frozen oyster stew in the form of a concentrated soup. The consumer pack is in 6-oz. lithographed cans, identical in size with the now-familiar frozen orange juice tin.

In addition to the consumer size, which is packed in cases of 24, the frozen stew is also put up in 56-oz. institutional size cans, six to the case.

As it comes from the can the frozen product consists of sliced oysters in a highly concentrated oyster nectar in milk, with monosodium glutamate, disodium phosphate and seasoning. In preparing it for the table, two parts of milk are added in heating.

The consumer package is widely stocked in chain stores and super markets, where it is carried in the specialties section of the frozen foods cabinets. Being in tin, it suffers no de-grade through package damage; nor can it contaminate other products under any condition.

• Initial production of the Haines frozen stew was in the cooperative's Seattle plant, but arrangements were made this spring to transfer packing to the plant of the Northwest Darigold Association, a dairy cooperative, at Mount Vernon, Wash. Future packing operations will be handled there, where the dairy association has admirable food-packing facilities, as well as a food products laboratory, a staff of chemists, and a thorough quality control program.

Under encouragement of Robert Pittman, manager of the association, Darigold has developed and patented a new process for *canned* oyster stew. Employing this process under an arrangement with Darigold, and the Darigold plant, Haines late th spring will start production of ca ned oyster stew in addition to frozen item—which will of course continued.

The spring pack of canned oys stew will be relatively limited, servi to introduce the new article, whi is said to differ materially from ca ned stews currently on the mark Materially increased production is e pected in the fall.

• W. Arnold Waring, manager of t Haines Oyster Co., reports interesti encouragement and cooperation the part of the dairy industry—a Darigold particularly, as might be e pected—in the merchandising of t frozen oyster stew in concentrat form. Obviously, sale of each can ca for the purchase by the consumer twice as much milk.

Darigold route men distribut cards to their customers calling atte tion to the "perfect combination" Haines frozen oyster stew and Da gold milk. The effect was positiv and measurable.

• Haines Oyster Co., an Oysterme Cooperative, was formed several ye ago as a true cooperative to take-ov the famous brand name and the oys marketing business conducted by M Waring and his associates. Mr. Wa ing became manager of the cooper tive.

The former Haines corporati name was changed to Crown Seafo Sales, which operates a general se food marketing business, with a sm salmon cannery in the plant at Seatt Another cannery is owned and op ated by a wholly-owned subsidia Crown Packers, at Hoquiam, Was I. L. Waring is manager of the Crow operations.

The Cooperative Haines Oyster C has 44 oyster growers as membe and is their exclusive marketi agency. Present company office with two directors from each ar represented, are:

President, C. M. Mercer, Sou Puget Sound; vice president, Roy Wilson, North Puget Sound; Secr tary, C. V. Shephard, South Pug Sound; Treasurer, T. W. Holwa Willapa Harbor; Directors, Lee Min Willapa; R. N. Steele, North Pug Sound. Mr. Steele is also curren president of the Pacific Coast Oys Growers Association.

Until the introduction of its froz oyster stew, the Haines compan business was primarily in fresh oyste with some frozen. The fresh sh ments continue as the mainstay of t business, and are made in a vari

packages and containers, including ıyers' labels.

Fresh oysters are packed variously sealed cans and glass bottles; while ʻsters usually are frozen in cans.

Notable use is made of fiber cases the company's operation. Oyster oducts frozen in cans are packed rect in the cases, blast-frozen and ɔred without the necessity of repack-g.

In the case of fresh oysters in glass, e jars are usually shipped in solid ɔer cartons filled with flake ice. ırtons from Fibreboard Products c., are used throughout the opera-ɔn.

All cans used are lithographed, ose for frozen oyster stew coming om Continental Can Co., while cans r whole oysters either fresh or ozen are of American Can Co. man-'acture.

Crown caps for oyster jars, from rown Cork & Seal Co., are also hographed. Inasmuch as seven dis-ıct caps are required for each brand, e inventory in crowns is a heavy ɛm. With three sizes of oysters ffered in consumer packages, each hographed in a different color, and ith the grade size indicated; and as Medium oysters are sold in 12-oz. and 1-pt. jars; Small oysters in these two sizes, plus ½-pt.; and Extra Small in ½-pt. and 1-pt., this adds-up to an inventory of seven different caps for each brand offered.

Fresh oyster volume handled by Haines Oyster Co. currently runs above 100,000 gals. annually, with steady growth manifest.

CALIFORNIA CANNED TUNA PACK — May, 1956

Can Size	Solid Pack	Standard	Chunk	Grated, Flakes	Dark & Light	Tonno	*Misc.	Totals, actual cases
WHITEMEAT TUNA								
1-lb.	766	...	...	...	...	...	...	766
½-lb.	40,659	...	7,287	5,815	...	...	...	53,761
¼-lb.	4,396	...	...	...	...	...	...	4,396
½-lb.	...	...	...	...	...	...	351	351
Totals, actual cases	45,821	...	7,287	5,815	...	...	351	59,274
LIGHTMEAT TUNA								
4-lb./12	4	...	738	...	...	...	...	742
1-lb.	352	384	3,520	69	...	...	...	4,325
½-lb.	110,818	10,337	590,453	88,557	3,963	7,983	...	812,111
¼-lb.	17,305	329	44,845	...	...	†8,454	...	70,933
½-lb.	...	...	...	...	...	...	360	360
Totals, actual cases	128,479	11,050	639,556	89,626	3,963	16,437	360	888,471

Totals Converted To Standard Cases of 4 Doz. ½-lb. Cans

Whitemeat	57,752
Lightmeat	862,297
Combined	920,049

NOTE—All figures in cases of 48 cans, unless indicated otherwise.
*Tuna specialty packs converted to equivalent in cases of 48 halves.
†In cases of 100 cans.

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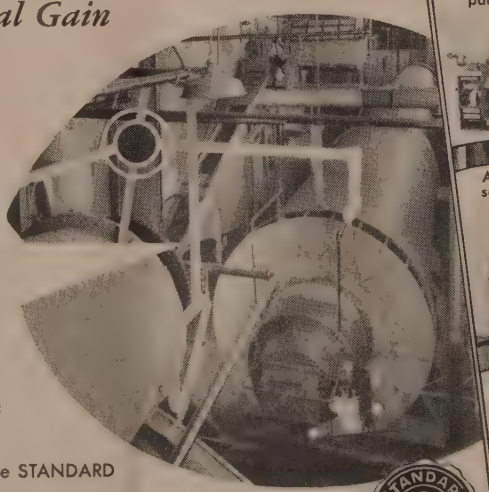

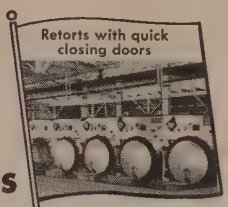

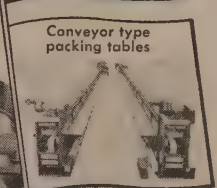

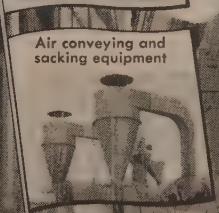

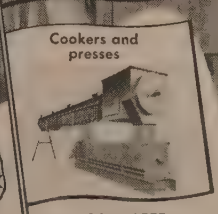

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Hydraulic Reverse Gear. For pleasure or work boats with engines up to 300 h.p. at 2200 RPM. Available with reduction gear 1½:1; 2:1; 2½:1; 3:1; 3½:1; 4:1; and 4½:1.

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Reverse and Reduction Gear. Full forward and full reverse. For gas engines to 250 h.p. at 4000 RPM and diesel engines to 150 h.p. at 3,000 RPM.
Now available—the New "2HED" reverse and reduction gear.

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Reverse Gear, D
Drive. Capacity
h.p. at 1000 RPM.
available with re
tion ratios of 2:1
3:1.

MODEL
Reverse and Reduc
Gear. Capacity 500
at 1000 RPM. Re
tion ratios—2:1; 2
3:1; and 3.75:1.

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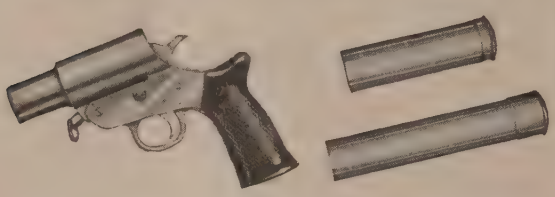
25mm PISTOL *and* SIGNALS



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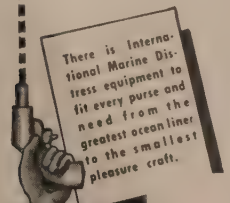
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apanese King Crab Operations on Target

Mothership operations of the Japese floating canneries engaged in e King crab industry appeared onrget at mid-year. The *Tokei Maru*, orking the waters of Bering Sea, had 5,198 cases of 48 halves packed to ne 25. This was about half of her rget for the full season.

Matsushisa Maru, operating off the liutorskii coast of Siberia, had 20,-11 cases on June 27, which was conlered quite satisfactory, as this was nfamiliar ground.

The four crab canning motherships erating in Okhotsk waters off the st coast of Kamchatka had proced 113,137 cases to June 27.

This totals 168,676 cases for the gh seas canneries to the last days June.

Shore crab canning operations in e Japanese home islands were reted poor.

. A. Magnuson Named onnell Bros. President

Herbert A. Magnuson, formerly ce-president of Connell Bros. Co., d., San Francisco food exporting d importing firm, has been elected esident of the organization.

He takes the place of Brayton Wil-r, who was elected board chairman.

Mr. Magnuson joined Connell Bros. ., Ltd., in Seattle 30 years ago. The mpany was purchased by Wilbur-lis Co., San Francisco, in 1931. Mr. agnuson is a director of Wilbur-Ellis ., Pacific Far East Lines, and other ms.

rst Sure Lobster atch Noted in B.C.

The first concrete evidence that sters will propagate in British Colubia coastal waters has been found Prince Rupert.

Parent lobsters, transplanted behind e mesh by the Prince Rupert Lobr and Oyster Co., have rewarded ir sponsors with a thriving family young lobsters, marking the first e a family has been observed in .

Previous attempts to transplant lobs failed. On one occasion, 1,720 sters were brought from the east st and placed in False Bay near Jaqueti Island. A year later fisheries icials found only one.

However the present success isn't ding fisheries officials too jubilant. hough verbal congratulations have n extended to the breeders of the thern B.C. company, officials feel ccessful breeding on a large scale till a long way off.

MORE SPEED—The 66' "Pacific Raider," purse seiner owned by John Jerkovich of Gig Harbor, repowered in May with a GM 6-110 Detroit diesel engine, has increased her cruising speed from 8.5 to 10 knots. The diesel, supplied by Evans Engine and Equipment Co., Inc., of Seattle, has General Motors new hydraulic starter which eliminates any need for starting batteries aboard.

Japan Frozen Tuna Sales Corporation Is Formed

After long study and negotiation, the Japan Export Frozen Tuna Sales Co., Ltd., was formed in Tokyo late in June. Participating are trading firms as well as manufacturers, an aspect in which the company differs from those sales concerns dealing in canned salmon and canned crab.

Kenkichi Nakabe, president of Taiyo Gyogyo, was elected president of the new company, while Niichiro Miyake of Nippon Reizo became vice president.

The company will sell frozen Albacore to exporting firms. Its function places it between the Japan Export Frozen Aquatic Products Manufacturers Association, whose principal function is the control of annual production, and the Japan Frozen Foods Exporters Association. It takes the goods from manufacturers and sells it to exporters, assuring the manufacturers of financing.

The sales company does not sell direct to foreign buyers.

Japanese-Venezuelan Venture Prompts Extension

The Japanese long-line tuna vessel *Bozo Maru* returned to Japan in June from Venezuela with 200 tons of frozen tuna. The results of the venture are now being studied with a view to forming a joint Venezuelan-Japanese company to bring four Japanese vessels, of same type as the *Bozo Maru*, to Venezuela in November, 1956.

The 200 tons of tuna taken to Japan were said to be for the purpose of studying the canning characteristics of these tuna. Other reports indicate that the tuna were unsalable in Venezuela due to the absence of canning facilities and lack of appeal to the Venezuelan consumer. Some attempts were made to sell the tuna at retail for as low as US $0.22, but apparently the Venezuelan consumer preferred to pay about US $0.74 for red snapper at retail.

L. A. Petersen Is Elected To New England Board

New England Fish Co. stockholders in annual meeting at the end of June elected L. A. Petersen, sales manager, as a director.

All officers were re-elected: Sydney M. Rosenberg, president; David F. Choate and Henry H. Goodrich, vice presidents; Oscar Bergseth, treasurer; William Gillispie, secretary.

Beside these officers and Mr. Petersen, directors are: Harry R. Beard, Douglas W. Hager, Malachi P. Kenney, Harold E. Roslund, Roger T. Hager, Harald Synnestvedt.

W. A. Estus, Cook Inlet Veteran, Passes Away

Death closed the long career of Walter A. Estus at the end of June. The veteran Cook Inlet salmon canner was 85, and had been active in the fish business for 40 years.

He founded the Cook Inlet Packing Co. at Seldovia and operated it personally, in recent years as his health failed he relinquished active control to his son, Sanger A. Estus.

Mr. Estus maintained a quiet independence in his business, which was a family company.

Today and Tomorrow

During 1955 the Salmon Industry was faced with the shortest pack in many years — resulting in higher production costs and higher selling prices. In addition, the industry faced low pricing on competitive food items and increasing Salmon packing activity outside the United States.

Therefore, the Industry is confronted with serious and growing problems. If it is to uphold the reputation that canned salmon has gained—for high nutritional value—for taste and attractiveness—for relative economy — each segment of the Industry must be ever vigilant to maintain high quality while cutting costs wherever and whenever possible.

We here at Pacific American Fisheries pledge our utmost to maintain and better the position of canned salmon on the nation's dinner table.

PACIFIC AMERICAN FISHERIES, Inc.

SOUTH BELLINGHAM, WASHINGTON

Quality Always

Sales Subsidiary: DEMING & GOULD COMPANY, South Bellingham

OOD FISH
MARKETING
ection of PACIFIC FISHERMAN--

News and Views of National Trade in Fish and Shellfish

August, 1956

Why Salmon-Exporting Canada Became an Importer This Year

British Columbia salmon canners ve been doing something this Sum- r that in other times would have n considered highly incongruous, not somewhat ridiculous. They've n importing canned Sockeye from an!

But these are not normal times; so packers adopted abnormal meth- to meet an unprecedented situa- n. The province's salmon industry threatened with being unable to p Canadian grocers' shelves stocked canned Sockeye if it was to fulfill obligations to the treasured United gdom market. Quite logically, the ustry turned to a source of supply could meet the temporary defi- ncy—Japan. This was the first time had ever been done, and the 80,000 es of top grade canned Japanese non now being marketed in Can- seem like a shipment of coal to castle; because ever since the be- ning of the commercial fishery on Pacific coast British Columbia been exporting—not importing— ned salmon.

he Canadian packers have a ready on for this drastic break with tra- n, and before taking a step that ht have been criticized in some ters, the problem was explained e fishermen, who quickly grasped good sense behind the argument. a result of a comparatively light last season and the prospect of her light pack this Summer, the stry wanted to make doubly sure canned salmon from Canada ld continue to be available in the important markets, especially in ada, where the appetite for this uct has been growing steadily, and e United Kingdom, for genera- the mainstay of the export trade. e would always be years—proba- y 957—when there would be plenty C. canned salmon to meet basic irements, but if the market could e satisfied this year there was the possibility that it might alter its buying habits, at the expense of the industry as a whole, in future years.

● Much of the credit for the innovation of importing Japanese canned salmon to meet the emergency goes to Norman Hager, of Bayside Suppliers, Ltd., Vancouver broker. Mr. Hager represents several Eastern Canadian buying groups and last winter he was under pressure to find canned salmon for his customers when it simply was not available. It occurred to him that perhaps Japan might furnish the answer to his problem, so he sought samples and forwarded them to Cruickshank, Guild & Co., who operate in Montreal and Toronto and whom Mr. Hager represents on this coast.

The samples were satisfactory to Mr. Hager and to the Easterners, so he entered into an arrangement with Robert Gavin, of Martin & Robertson, Ltd., Vancouver agents, who is also associated with Canada Rice Mills, both with a considerable background of experience in dealing with Japanese business interests. The arrangement was that Bayside Suppliers would bring in 11,000 cases of Japanese canned Sockeye in two orders, one for 6,000 cases and the other for 5,000 cases. Also involved in the deal was Daiichi Bussan Kaisha, Tokyo trading organization represented in Vancouver by E. A. Towns, Ltd.

● However, the purchase by Bayside Suppliers and its associates was little more than the ice-breaker in the much larger deal eventually negotiated by three of the major fish canning companies—Canadian Fishing Co., B. C. Packers, and Nelson Bros. Fisheries. The latter had its genesis when Norman Hager went duck hunting with his brothers—Roger, president of Canadian Fishing Co., and Douglas, manager of Puget Sound and Columbia River operations of New England Fish Co.

Shortage of canned salmon was a problem perplexing the packers as much as Norman's import house, and when Norman mentioned the prospect of dealing with it through purchase of Japanese canned salmon, as he had done for Cruickshank, Guild & Co., the two other Hagers admitted that there might be something in it worth exploring, especially after they had had an opportunity of sampling the Japanese product.

B. C. Packers also showed an interest, and so did Richie Nelson, head of Nelson Bros. Fisheries. The next important step was the departure of Cyril Ashdown, sales manager of Canadian Fishing Co., and Dave Guest, of export sales department, B. C. Packers, on a hurry-up flight to Japan. The two Vancouver men spent several busy days inspecting Japanese canned salmon and making preliminary arrangements for a deal that would ultimately lead to the shipment of 80,000 cases to Vancouver.

Most of the Japanese salmon, all of top quality, is being marketed in Canada, so as to clear the way for export of the Canadian product to the United Kingdom in fulfillment of the contract negotiated some time ago. The Japanese salmon is, of course, marked with "Product of Japan," although it will bear the familiar company labels when displayed on Canadian shelves.

● Bringing Japanese canned salmon to this continent is of course not entirely new this year, because in 1955 considerable quantities of Japanese canned Red and Pink salmon were imported by the U. S. to help meet the deficiency caused by the light Alaska pack, but the Canadian purchase is historic in that it marks the first time that Sockeye has been brought in on a substantial scale from Japan, and the

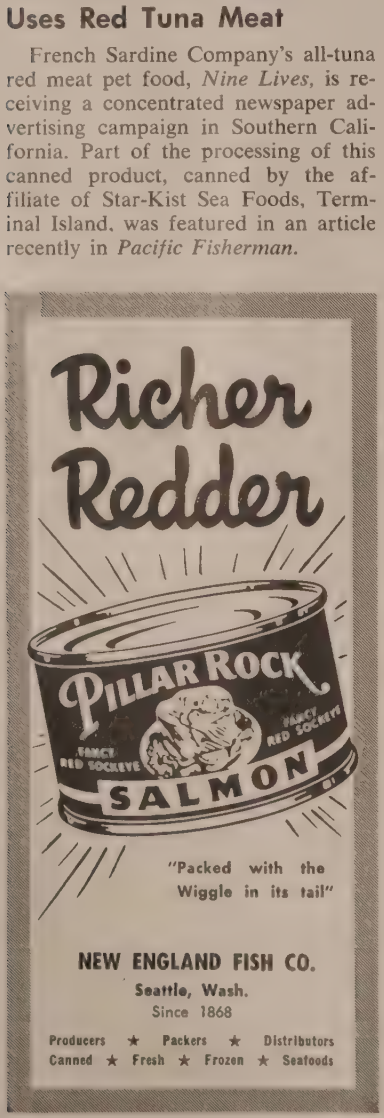
first time that canned salmon of any grade has been imported from Japan by Canada.

In view of the expected light pack this Summer it's quite possible that a similar purchase may be made during the coming Winter, but packer executives aren't ready to commit themselves on that so far in advance.

"The thing to emphasize and remember," one Vancouver packer told *Pacific Fisherman*, "is that we took unusual steps this year to meet an unusual situation brought about by two basic considerations — the short pack and the desire to keep our canned salmon before customers in Canada and the United Kingdom."

"Nine Lives" Cat Food Uses Red Tuna Meat

French Sardine Company's all-tuna red meat pet food, *Nine Lives*, is receiving a concentrated newspaper advertising campaign in Southern California. Part of the processing of this canned product, canned by the affiliate of Star-Kist Sea Foods, Terminal Island, was featured in an article recently in *Pacific Fisherman*.



Smashing Tuna Week Tied To Back-to-School Theme

● Backed by the largest consumer advertising schedule in its history, every homemaker in America will be alerted to National Tuna Week, September 13 through 22.

Tuna Research Foundation, sponsors of the promotion, has placed a four-color page ad, plus one column in black and white, in *Look's* issue on sale September 4. *Look* will service an all-out merchandising program including sales letters announcing the week and pointing its importance to food retailers.

A host of related manufacturers have joined in the overall promotion.

Minute Rice will feature "Tuna Rice Pronto" with a four-color full-page ad in September issues, and will also use its television facilities for the event and provide in-store spectacular displays, in addition to merchandising by its field salesmen.

National Steel Corporation is placing a double page, four-color ad in business publications to appear during September.

Carnation Milk will use a tuna recipe on its "Burns and Allen" TV show, and will make tuna and evaporated milk recipes a feature item for its field men.

Kraft Foods will feature a tuna sandwich recipe on Kraft Television Theatre, as well as tuna and mayonnaise, over Mutual radio newscasts, and field salesmen will build tie-in displays at the retail level.

Other network television commercials will include the "United States Steel Hour," the Reynolds Metals' "Frontier" show, "Our Miss Brooks," "Topper," "December Bride," "Queen for a Day," and General Mills' TV outlets.

Macaroni manufacturers will co-operate in local newspaper, radio and TV schedules with macaroni and tuna dishes, and provide in-store display material.

Through the Tuna Research Foundation, major newspapers and national food syndicate columns will be serviced with recipes, news, feature stories and photographs. National magazines and the Sunday supplements have picture and editorial material for September releases. Smaller newspaper dailies and weeklies will receive releases as will the farm, la and Negro press. Home econom on both TV and radio will carry s cial material, and network person ties will plug the week on both and radio.

Individual member canners of Foundation will have four-color appearing in American Weekly, T Week, Parade, Family Weekly and dependent Sunday supplements p national and regional TV and ra commercials.

The Fish and Wildlife Service devote its entire field personnel home economist TV demonstrator the program.

Dates for National Tuna Week h been moved from the customary week in November to tie-in w "back-to-school," and special emp sis will be given to school cafet menu suggestions, lunch box reci salads and sandwiches in additio stressing new recipes to the ho maker and pointing up the nutriti value and economy of the produc

Gilbert Taylor Switches From Fish to Plastics

Norfish Sales Co., Oakland sea brokerage house, has announced retirement of Gilbert G. Taylor, e tive last month.

Mr. Taylor is the brother of Taylor, president of the company, said: "I feel that with the retire of Gilbert, we are losing one of most valued personnel. He has in full charge of all office and counting procedure since almos beginning. We know that his r friends in the fishing industry wi sorry to see him leave."

Gilbert Taylor plans to take a tive part in the management of lor & Art, Inc., Oakland, a pl firm, and distributor of Copon m paints, with which he has been ciated for several years.

Tuna Imports, Frozen, Southern Califo

May, 1956

Japan	Tons	South America
Yellowfin	1,920	Yellowfin
Albacore	748	Skipjack
		Albacore
Total	2,668	Total

Short and High, Salmon Will Take Some Selling

Uncertainty as to supply and price currently had not undermined interest in canned salmon buying and selling as July progressed to the *PF* deadline.

Sales? Small parcels of Pinks, appearing from under the counter and from the barn, and commanding $1, with some offerings reported as low as $22.

Orders? Plenty, on an sap. basis; which means not firmer than Jello with a little too much water in it.

Prospects? Nothing better than light packing had been reported anywhere along the salmon coast to date of writing. Fish generally moderate in quantity, small in size, high in cost.

Imports? The Japanese talking about having 400,000 cases in mind as the measure of their business with the United States out of their 1956 pack. Sounds like a lot, when they haven't caught 'em yet.

Exports? Britain almost certainly will issue permits for about $7 million salmon purchases again this year. Further, it is anticipated that the permits will all be issued at once this year, the half-at-a-time system having proved disturbing.

Export Price? While it would be too much to expect a British buyer to be bullish, there's a more-than-usually determined character to the U.K. avowal that salmon there is "priced too high to sell readily, is backing up, and will have to come down."

● *Conclusions?* That the 1956 supply will be light, possibly even lighter than anticipated early.

That costs will be *high*, with light catches and small size of individual fish in some areas serving to hoist costs above anticipations.

● *Competition?* This is serious for salmon. Tuna is cheap and abundant. Meat is cheaper than it has been in a long while.

Salmon will take *selling*.

Rupert Fish Co. Buys On Seattle Exchange

Rupert Fish Co., American subsidiary of the British Columbia Packers, Ltd., became an active buyer on the Seattle Fish Exchange late in June for the first time, although it maintained an office in Seattle for many years.

John Jameson came to Seattle as the Rupert buyer, with a desk in the office of Seattle Seafoods, Inc., at Pier 61. Fish purchased are unloaded over the Seattle Seafoods dock.

Rupert Fish Co. is an active distributor in Southern California, where B. C. Packers, Ltd., also has another large outlet, Freeman's Certi-Fresh Foods.

Fish "Jiffies" Tried, Sliced Thin and Fried

"Jiffies" of haddock and perch appeared on the ready-cooked frozen fish list recently. They are a product of Fulham Bros., and are offered under their "4 Fishermen" brand.

Henry Goodrich **Palmer Olson**
Mr. Goodrich is New England Fish Co. vice president in New York; and Mr. Olson handles the firm's bulk fish sales from Seattle.

"Top Wave" Brand Label Is Revised

Schmidt Lithograph Co. has developed a new label for Pan Pacific Fisheries, Inc., *Top Wave* brand. For this fancy solid pack of Albacore, 7 oz. can, the label is in red (*Top Wave*), yellow, black-gold with a natural color reproduction of a plate of Albacore. Pan Pacific is on Terminal Island with E. W. Chapman as sales manager.

Other labels include *Lucky Strike* chunk; *Sorrento* tonno; *Sweep Stakes* mackerel and sardines talls and ovals.

They Add Up To A Lot of Sales!

Oceanic
SALES COMPANY
3302 SMITH TOWER
SEATTLE 4, WASH.

THERE'S A GROWING Demand for

Quality Pink Salmon
KELLEY-CLARKE CO.
2460 6th Ave. S.
Seattle 4, Washington

Intermediate Package in frozen shrimp merchandising is this two-pounder, packed for Marine Products Company, San Diego. The over-wrap, a five-color process, is by Western Waxed Paper division of Crown Zellerbach.

Wide Disparity is Evident In California Tuna Prices

In the Southern California tuna market, retail, as June ended and July began, there continued the disparity in shelf price of canned tuna, as advertised by various chains.

Del Monte chunk was advertised at five cans for $1.00; *Chicken of the Sea,* "bite size," by the Safeway chain at 25c a can.

In San Diego, *Star Kist* chunk was featured at 29c, and 33c for the solid pack. The Mayfair chain was advertising its own label, *Mayfresh,* chunk, at 23c. Another "chain" label advertised was Alpha Beta's Food Club chunk, 2 for 45c. Another chain listed *Chicken of the Sea,* chunk, at 23c.

The new *Breast of Chicken* tuna spread was selling in San Diego, the home of the processor, for 31c, a 6-oz. package.

Maclean's breaded shrimp, sole, perch and cod was advertised in Los Angeles in June. This company, known as Shrimp Processors, packs for Marine Products Company, as well as for its own label, and is now working from a new plant near Santa Ana, Calif.

Fish sticks advertised in the Los Angeles area in June included *Birdseye, Friday* and *Four Fishermen.*

California quoted canned tuna prices in late June averaged, f.o.b. canners' terminals, as follows: Advertised brands: white meat fancy, 7 oz., 48s, 15.25 to 15.50; white meat chunks, 6½ oz., 48s, 13.50 to 14.50; light meat fancy, 7 oz., 48s, 13.00; light meat chunks, 6½ oz., 48s, 11.50; grated, 6 oz., 7.00 to 8.00.

Private labels on tuna: white meat fancy, 7 oz., 48s, 13.00 to 13.50; white meat chunks, 6½ oz., 48s, 11.75 to 12.00; light meat fancy, 7 oz., 48s, 11.00 to 11.50; light meat chunks, 6½ oz., 48s, 9.25 to 9.75; light meat chunks, 6 oz., 48s, 9.25 to 9.75; grated, 6 oz., 48s, 7.00 to 8.00.

Nation-wise the sale of canned tuna was solid, according to reports by several packers.

Jack Mackerel Leads

Jack mackerel took the lead in tonnage for May in Southern California, 2,693 tons packed in 1,525 cases of 1 pound ovals, 37,564 cases of talls. Pacific mackerel fell below anchovy pack: 16,765 cases as compared to 251 cases of 1-lb. ovals, 9,096 cases 8-ounce buffets and 21,281 cases of 5-ounce round 100s.

John G. Martin New Seafood Broker

John G. Martin, for many y San Francisco resident manager, rine Products Co., has opened his seafood brokerage business under name of John G. Martin, Food Br 4 Transport bldg., The Embarca San Francisco, phone: GArf 1-8835.

Mr. Martin is representing W field Deep Sea Trawlers, king king crab meat in retail and in tional packages; Snake River T Co., Buhl, Idaho, frozen trout; T California, Inc., imported Jap seafoods, clams, swordfish, scal frog legs, etc.; and Astoria Sea F fresh fish.

Joins Dowden Firm

Joseph P. "Joe" Devincenzi, merly head of the Northern Calif Sea Food Institute, and formerly ident of Marine Packers, San cisco, is now associated with Dowden Co., San Francisco sea brokers.

SAN JUAN

STEAKS FROM THE PACIFIC!

fresh frozen

HALIBUT AND SALMON

PORTION CONTROLLED STEAKS

and now . . .

HALIBUT
SALMON
and FISH

STIX

fresh frozen — breaded — ready to cook

SAN JUAN

SAN JUAN FISHING & PACKING CO
FOOT OF STACY STREET — SEATTLE

VITA FOOD

TRADE MARK

PRODUCTS, INC.

GENERAL OFFICES — NEW YORK CITY

Importers & Exporters — Producers, Packers, Smokers

FISH OF ALL KINDS

Mildcured and Frozen from all Principal Centers of Alaska

SEATTLE OFFICE — 1844 WESTLAKE NORTH

MILD CURED SALMON

CANNED SALMON

ICI-FRESH

BRAND

TRADE MARK

PACKED IN THE NORTH PACIFIC

Frozen SALMON AND HALIBUT

OXENBERG BROS., INC. • BROOKLYN, N.Y. • SEATTLE, WASH.

FRESH SALMON

FISH FILLETS

OXENBERG BROS., INC.

276-280 Metropolitan Ave., Brooklyn, N. Y.
Bell Street Terminal, Seattle 1, Wash.

The PAK-FORMER

Leading tuna canners are now using the PAK-FORMER for their Chunk and Grated Style Packs. A variable speed drive permits filling speed adjustments of between 140 and 250 cans per minute. Available to the industry under similar terms as our PAK-SHAPER.

For Complete Information Write to

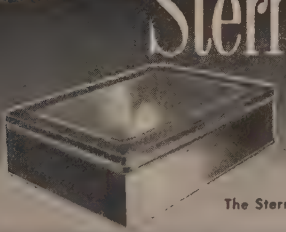
E. H. CARRUTHERS CO.

Engineers and Designers to the Food Packing Industry

P. O. Box 1332 Warrenton, Ore.

1901 - Fifty-five years of Can Know How - 1956

Stern Can



The Stern Fillet Can

STERN CAN COMPANY, INC.

71 LOCUST ST. BOSTON 25, MASS

IN CHICAGO BUYERS "Phone FROHMAN for Fish!"

A COMPLETE SELLING ORGANIZATION

COMPLETE TRADE COVERAGE

50 YEARS OF SALES PROMOTION AND MARKETING EXPERIENCE

NATIONALLY RECOGNIZED HIGH STANDARDS OF SERVICE

SPECIALISTS IN BRAND BUILDING

RETAIL SPECIALTY WORK

CREDIT INVOICING AND TRAFFIC SERVICE

RECEIPT AND DISTRIBUTION OF CARS

CONSIGNED STOCK SELLING & RECORD KEEPING

L. H. FROHMAN & SONS Sales Agents

FOR PRODUCERS OF CANNED AND FROZEN FISH AND SEA FOODS

510 NORTH DEARBORN STREET CHICAGO 10

Project Ocean Research--

What is the Relationship Of Weather, Sea and Fis

• Research to study weather changes, and how they alter ocean conditions and, in turn, the effect of such alterations on the abundance and availability of important ocean fisheries is being initiated at the Stanford University station of the U. S. Fish and Wildlife Service. O. E. Sette, formerly director of the Pacific Oceanic Fishery Investigations at Honolulu, is leader of the small group of scientists working on this problem. When full-fledged, the project, Ocean Research, will for the first time bring together the sciences of meteorology, oceanography, and fishery biology in a concerted attack on the problem of natural fluctuations in major fisheries.

The group at Stanford plans to make use of the increasing stores of data which are accumulating on the weather, the sea, and the fish of the Pacific. The world-wide network of weather stations and the ships at sea are reporting weather daily and the United States Weather Bureau is organizing these data in increasingly useful form for study. There are over 12 oceanographic and fishery research vessels operating in the Pacific from Canadian and United States ports, and a greater number from the Asiatic side of the Pacific, collecting information on conditions in the sea. There are state, federal, and international fishery research groups from Alaska to San Diego to Hawaii accumulating and analyzing data on particular fisheries. All of these data on the weather, the sea, and the fish are being collected and studied for particular purposes, and the results have highly useful application to the particular problems which gave rise to their collection and study.

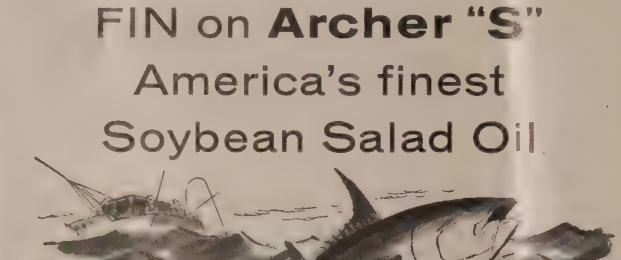
The fishery research, in most instances, is directed toward finding out whether or not conservation measures are needed for a particular fish resource in order to insure a continuing catch at the maximum level that resource is capable of sustaining indefinitely without progressive dimin
The problem becomes very di
when the abundance of a fish s
fluctuates from year to year, or
one series of years to another
from natural causes unrelated t
amount of fish and partly fro
varying amount of fishing. To
a sound determination of the
replenishment capacity of the
when faced with this kind of sit
the researcher must deal with da
tending through enough years f
natural fluctuations to "average
at each of several levels of f
intensity. Results are slow in
coming and must be in broad a
terms.

The alternative is to find out e
about the causes of natural fluct
so that the fishery investigato
identify them, measure their infl
on the abundance of fish and dis
them in his quantitative analysis
effects of fishing. This obvious
native has been tried on a local
without signal success so far.

It is proposed, by means of th
project to attack this problem
broader basis. The effort will
discover whether or not major
in the hemispherical weather p
from one year to the next, or ru
through series of years, may b
ultimate causes of these natural
tuations. This involves concu
study of ocean-wide changes i
current system, in the amount o
sonal warming and cooling and
amount of upwelling of deep wa
mix with the surface layers; and
volves concurrent study of how
the changes in these processes i
affect the abundance and dis
tion of the important ocean fis
various parts of the Pacific Oc

While the initial effort will
study the whole chain of eve
they have occurred from time t
in the past, the long-term objec
predict future events in the f
directly from weather conditio
this can be done, the uncertai
the fisheries will be greatly re
both from the standpoint of th
sponsible for the conservation
fishery resources and of thos
make their living by harvesting
the sea.

You can bet your last FIN on **Archer "S"** America's finest Soybean Salad Oil



If you'll *taste—smell*—and *try* Archer "S" Soybean Salad Oil, you'll see why so many tuna processors are using it.

These processors know that Archer "S" *keeps* the delicate tuna flavor. Helps build customer demand for their products—fast! That's because Archer "S" is refined and deodorized by a continuous ribbon process . . . cannot vary in quality. Every time you order Archer "S" Soybean Salad Oil, you get the *same* clarity of color . . . the *same* purity and blandness.

Archer "S" Soybean Salad Oil

Archer-Daniels-Midland co.

724 Investors Building, Minneapolis 2, Minn.

ower Must Come From arren Streams First

—James Sinclair

very non-salmon stream in British mbia should be developed for er before a salmon stream is hed by hydro-electric develop-, and part of the Columbia River ing through Canadian territory ld first be exploited to the full, rding to Canadian Fisheries Min- James Sinclair.

peaking in the House of Com-s, Mr. Sinclair said that construc- of a power dam at Mica Creek the Columbia offered hope for ving the pressure on the Fraser r as a potential source of energy. e have been several recent pro- ls for harnessing the Fraser, test single salmon fishery in the d, and if Mica Dam or some r alternative development materi- s Mr. Sinclair believes that the er will not be jeopardized.

year ago, said Mr. Sinclair, er people were arguing against a Creek on the ground that the er developed there would be too from British Columbia's centers opulation. But last Summer, on way to Russia, Mr. Sinclair visited dinavia and discovered that in den power was being successfully smitted 600 miles, whereas the nce between Mica Creek and couver was only about 300 miles. Even when the known salmon ms are exhausted", said Mr. lair, "there should be no dams on the Fraser until we have dis- red how we can safely pass the t salmon over the dam on the to the spawning ground and the difficult achievement of passing salmon fingerlings down over the on the way to the sea".

Mr. Sinclair mentioned that there been several different proposals damming the Fraser for power. was that 10 dams of less than feet be built and if this were the salmon fishery would be ed. One power company had sug- ed one low level dam on the er to serve until such time as the mbia River power in B.C. could eveloped.

very different problem would mposed by the proposed Moran . 700 feet high, one of the highest e world. How could the migrant rlings be dropped 700 feet? The neers had suggested a lip just below the spillway to divert the fish down the side by tubes, but it would take a long gradient, otherwise the fish would go down just the same as over the top. The other difficulty respecting the proposed Moran dam was the enormous lake that would be created behind it—164 miles long. The salmon which got over the dam, instead of encountering the river current would be lost in the lake, which would also mean the flooding of many spawning beds.

Mr. Sinclair expressed the hope that the continuing studies being made by the Sockeye Commission, the fisheries departments and various other authorities, and with the grants of $100,000 from H. R. MacMillan, chairman of the board of B.C. Packers and a member of the Commission, and $50,000 from the B.C. Power Corporation would eventually make an important contribution to the problem.

Skinner & Eddy Handle Aleutian Frozen Sales

Aleutian Cold Storage Co. headquarters offices moved in June from the Seattle waterfront to the Skinner Building, Seattle.

Marketing of the company's frozen fish pack hereafter will be handled by the Skinner & Eddy Corporation, acting as sales agents, according to announcement by Frank Erickson, Aleutian president and general manager.

George Harry Wins His Doctor's Degree

A doctor of philosophy degree in fisheries was conferred upon George Y. Harry, Jr., Fish Commission of Oregon director of research, by the University of Washington in June.

Dr. Harry's thesis is titled "Analysis and History of the Oregon Otter Trawl Fishery." The work deals with life histories studies of soles found in Oregon waters, studies of the comparatively-new mink food fishery in the state, and a statistical study of the Oregon otter trawl fishery. Also included in Dr. Harry's research project is information on the development of boats and gear used in the otter trawl fishery. Sections of the thesis will appear in future fish commission publications.

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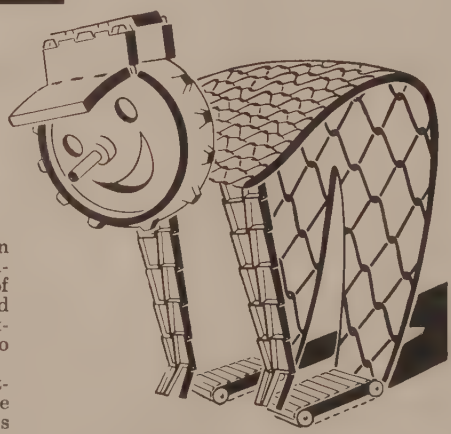

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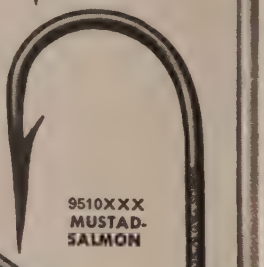

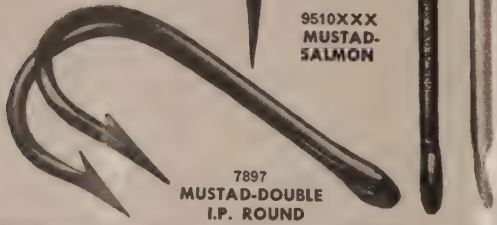

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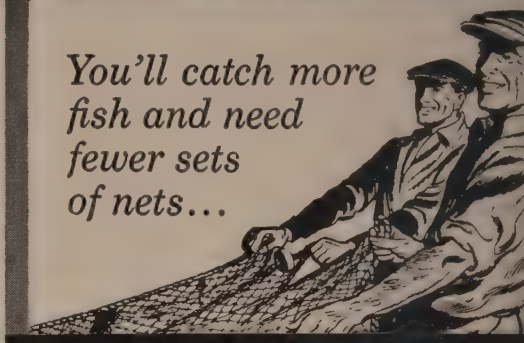

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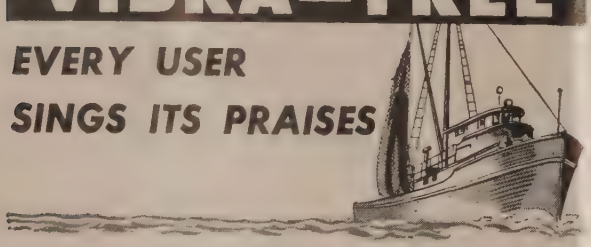

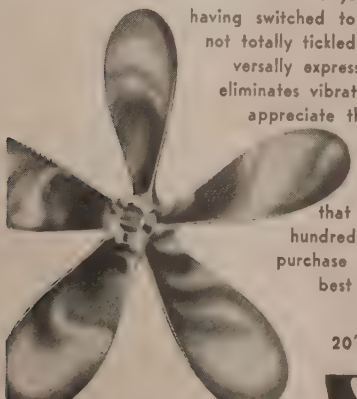

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Okai Becomes Chief Japan's Fisheries

an interesting shift of authority, o Okai, hitherto vice director of Fishery Agency of the Japanese stry of Agriculture and Forestry, n June advanced to the director-

r. Okai is a member of the Japan- ection of the International North ic Fisheries Commission and as is well known to a number of ns in the United States and Ca- n fishing industries.

deo Okuhara became vice direc-

umbia River Summer ing Proves Good

sumption of fishing on the Co- ia River June 20 following the spring closed period produced r fine fishing. This is to be ex- d at the resumption, due to the nulation of fish in the river — some cynics still say: "And in — but the deliveries persisted r well until July.

th the opening of July the lower catch was largely Chinooks, but were still a fair number of Blue- in the middle river.

ren Tuna Detector nted by Japanese

chnologists for Nippon Reizo K. apan's great refrigeration com- have invented equipment which company believes makes it possi- o determine in the raw state ner Albacore will show the ab- al color known as "green fish" precooking.

Investigations of the technological charged with this problem con- d them that there was a relation- between a reddish tint in the color e flesh of the raw Albacore and development of the greenish or -green color in the meat after ing. The more nearly white the lesh, the lower the incidence of n fish" development.

Accordingly, the company devel- the Nippon Reizo Blue Meat De- , an electro-optical device de- l to measure and record the re- on of beams of light directed at lesh of fresh-caught Albacore. nstrument works on the prin- that white flesh reflects more than red, and that the reflectiv- fish flesh varies inversely as to tensity of red coloration.

s reported that the first model instrument gave 80 to 85% ion of potential "green fish" in w state; while the improved gave 100% detection. This in- ent is reported as being installed at the Nippon Reizo delivery station at American Samoa, where the company is handling and delivering to the Van Camp Sea Food Co. under contract tuna produced by a fleet of fishing vessels operating under Nippon Reizo management.

Patent for the equipment is being sought.

"Westri" is a 37' salmon troller owned by Henry W. Peterson and operated out of Westport, Wash. She was repowered in May by a 4-51 Detroit diesel engine by Evans Engine and Equipment Co. It turns a 30" x 23" wheel through 3.5 to 1 reduction gears for a cruising speed of eight knots. The craft's cruising range increased from approximately 106 to 133 hours on the same fuel tankage.

C. A. Calkins, Canadian Fish Man, Dies at 95

C. A. Calkins, president of the import and export firm of Calkins & Burke, Ltd., Vancouver, B. C., died recently at 95. He was probably the oldest executive in the Pacific Coast fisheries business at the time of his death, although he had not been active for several years.

Mr. Calkins will be remembered for the leading part he played in developing trade in fish products between this coast and the Far East. He pioneered the marketing of British Columbia dry salt herring in China—a development which reached its peak between 1920 and 1932 when sales totaled some 50,000 tons annually.

At that time salt herring was regarded as one of the cheapest foods for human consumption, being sold at $20 to $30 a ton. By comparison, orders placed recently for delivery to Formosa by a U. S. government agency called for a price of some $120 a ton. The salt herring trade on this coast declined following the advent of the reduction plants and the demand for meal and oil, followed by wartime demands for canned herring and political strife in the Orient. But during the great days of the China herring trade Mr. Calkins spent many months traveling from Mukden to Colombo, maintaining business contacts.

Born in Ontario, Mr. Calkins went to the Pacific coast about 1904 and settled in Vancouver, where he soon established his export and import business, with special interest in fisheries products. He operated under his own name at first, but in 1923 he was joined by the late F. E. Burke, who had been managing director of the Wallace Fisheries before that company was sold to B. C. Packers. Calkins & Burke was incorporated, with Mr. Calkins president, F. E. Burke as vice president and Ben L. Burke, his brother, a director. Both the Burkes died in 1948 within a feew weeks of each other.

Active head of the company for a good many years has been A. B. Calkins, managing director, son of the founder.

Jimmy Fidler, Stand-out Canadian Fisherman, Dies

Capt. Jimmy Fiddler, 42, one of the best known figures in British Columbia's fishing industry, died suddenly in Vancouver this spring following a heart attack.

A fisherman all his life and the son of a fisherman, Jimmy Fiddler grew up in the industry in the Vancouver area, where he was born. His father had operated a halibut boat and later established a fish buying station at Bull Harbor, and it was there that Jimmy first entered the fishing business, first with his father, then as a troller, a halibutter and finally as the owner of a fleet of vessels and the president of three companies.

He was one of the organizers of the Fishing Vessel Owners Association of B. C. and was largely responsible for the Vancouver Settlement Service for fishermen. Among the vessels he owned were the *Kalamalka, Joan F.* and *Joan* 3, *Antler, Royal Chinook* and *Neekus.* He was also a partner with his brother Norman and Paul Johannson in ownership of other craft.

In 1944 he purchased the National Fisheries, Ltd., from Fred Gosse, now in Seattle, and became chief executive of National Packing Co., operating a reduction plant at Shingle Bay, and of the Bamfield Fishing Co.

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Elsinore--Seventh Steel Sistersh

• *Elsinore*, seventh of a series of welded steel tuna clippers, was recently launched in San Diego by National Steel & Shipbuilding Company. She joins the *Cabrillo, Dominator, Independence, Concho, Missouri* and *Westport*.

All are 127′ long, with a moulded beam of 30′-6″. Propulsion of *Elsinore* is similar to that for the *Independence, Concho, Missouri* and *Westport*, a Fairbanks-Morse 960-hp., 6-cyl. opposed-piston diesel, utilizing a 3:1 Seamaster reduction gear. Two auxiliaries are Murphy diesels.

Refrigeration is by four Worthington 6x6 ammonia compressors, each driven by 30-hp electric motors. Steering? Sperry Magnetic Compass Pilot, automatic and manual.

Total fish capacity is 340 tons; fuel capacity, 48,551 gallons.

Some modifications in the *Elsinore*, according to Wendell Calkins, National Steel's naval architect, were accomplished in this seventh of the series. A heat exchanger is now part of the boat ment, which permits the salt water as i through the condens inating fouling of salt water.

Norfish Handles Gorton's Line of Bulk Fish

Norfish Sales Co., Oakland sea food distributors, has been reappointed northern California sales representatives for Gorton's of Gloucester, Mass., for that firm's line of bulk and institutional frozen fish.

Norfish will cooperate with Hall-Roepke Co., San Francisco, who are sales representatives for the Gorton's of Gloucester line of consumer package frozen fish.

Neil Taylor, president of Norfish, states that Gorton's is the only sea food packer in the United States with continuous USDA inspection in its plant.

Can't Fight Fire With Fire

Dusty Rhodes quit as head of the volunteer fire department at Bodega Bay last month after a fishing boat fire which he said might have been disastrous.

He is reported to have said: "I resign because the tank truck wasn't filled, the new coupling did not fit the truck and the suction hose didn't suck."

Mr. Rhodes' indignation followed an explosion and fire aboard the 32′ salmon troller *Frances May*, owned by Joe Trentacosta, San Francisco, who was seriously burned.

Barracuda Is Featured As the Fish of July

Southern California's July se of the month was barracuda, shrimp and scallops as comp items.

The fish of the month is desig by the Southern California Fis Association which in June succes carried off its first Club Day, v golf tournament and dinner and ball game, etc. There were in a ance fishery personnel from Sa ego, Morro Bay and San Franci

The association is working n Seafood Week, with Aldo Cas as chairman. One of the don prizes for the Club Day was Vitale of Los Angeles Smokin Curing Co.

New Canadian Boats

Two new fishing vessels launched recently near Vanc B.C. — the 68′ salmon and h seiner *Pacific Pearl* and siste *Miss Geraldine*.

Both vessels were built at th sumoto Shipyard at Deep Cov former for Peter Valkovich and Brnich who fish for Canadian F Co. and the latter for Willy P. W of Namu, who does most of hi ing for B. C. Packers.

LINES and LEADERS

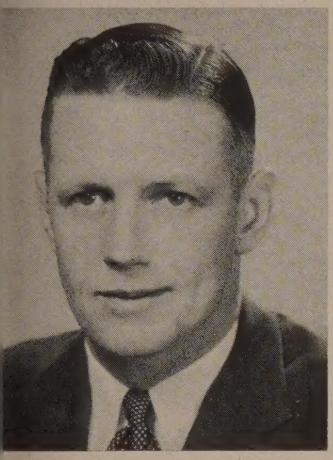
tinental Can Expanding iber Case Field

itinental Can Company and Robert Company, Inc., have agreed in prin- on a basis for the merger of the two prises by an exchange of common at the ratio of 8/10 share of Conti- l for each share of Gair.

itinental has gradually diversified its ties over the last several years to de its customers with a broad pack- service, but has not produced ship- containers and cartons. Gair's lead- osition in this field for over 92 years enable the new merged company to de virtually complete coverage of the growing packaging market.

itinental Can the same day announced sition of Canadian Crown Cork Co.

e move marks the first entry of a l container company in Canada into rown cork field.



intendent of American Can Company's container manufacturing plant in Salem, on, is **J. G. Griffin,** former assistant plant ger at the company's Portland plant. iew Salem plant which he will manage floor area of 135,000 square feet and ave a rated output capacity of 240 mil- ans a year.

* * *

s **Frampton** has become office man- for the **Paul W. Hiller** firm in Wil- on, California.

W. C. Hatfield **E. G. Gross**

Mr. Gross advances to assistant to the Pacific Division manager of sales of the American Can Co. with headquarters in Portland, while Mr. Hatfield takes Mr. Gross' former post as district sales manager for Oregon.

Hayssen Opens West Coast Sales Office in California

Hayssen Manufacturing Co., producing wrapping and slicing machines at Sheboygan, Wis., now has a direct West Coast sales office at San Francisco with Loyd C. Johnson in charge. He also has sales and service for Hayssen in Northern California, Washington and Oregon.

The Hayssen western headquarters office is at 517 South B St., San Mateo, Calif., where there is a sales room for display and demonstration as well as office and service quarters.

Hayssen also maintains an office in Los Angeles for sales and service in Southern California and Arizona. It is in charge of Oliver Ho, who is reached through telephone Normandy 2-1392.

* * *

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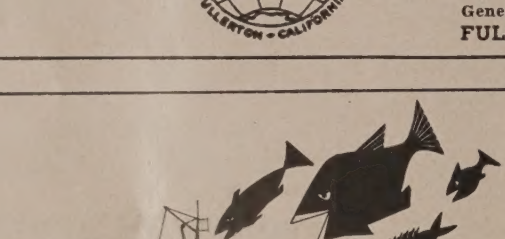

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GOLD MEDAL COTTON SEINE TWINE—For hand-knitting, hanging and mending, get the same high-quality twine that GOLD MEDAL NETTING is knit from. Ask for and be sure to get GOLD MEDAL.

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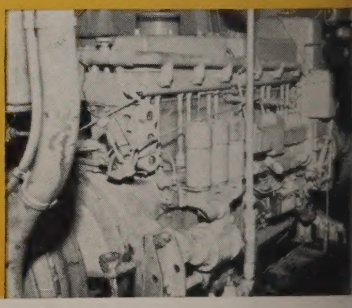
A Cat D13000 Electric Set (right) provides auxiliary electric power for the 107-foot tuna clipper *Wiley V. A.* This is one of many Cat Engines and Electric Sets in the Ambrose fleet.

"CAT* Engines have given us good performance since 1941"



The Ambrose Company, operators of a fleet of tuna clippers out of San Diego, California, have had 15 years of experience with Caterpillar Diesels. Port Captain R. E. Wafer says:

"Caterpillar Engines were first installed in one of our vessels in 1941. The engines' performance was so satisfactory it was decided to install other Cat Diesels in our fleet. My personal reasons for favoring Caterpillar power are low maintenance cost, long periods between overhaul, availability of parts replacements, and the excellent service furnished by the local Caterpillar Marine Dealer."

Today, Caterpillar offers a line of modern heavy-duty marine engines and marine electric sets with even greater performance features to the fishing industry. The new D337 (Series F) is a good example. It's a Turbocharged engine with 310 HP (maximum output capacity). And the new compact Cat marine gear, with modern oil clutch, permits continuous operation at full load in either direction. You have a choice of three starting systems—air, gasoline or electric.

If you're building a new boat—or if your pre engine is causing trouble, costing you time and mo —talk things over with your Caterpillar Dealer. has the right power for your boat, with a full rang engines up to 650 HP (maximum output capacity) also has a full line of Cat Electric Sets. And he'll s behind your engine with reliable service.

Caterpillar Tractor Co., San Francisco, Ca Peoria, Ill., U.S.A.

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MODERN HEAVY-DUTY MARINE POWER